

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING						FORM 3 AMENDED REPORT				
APPLICATION FOR PERMIT TO DRILL						1. WELL NAME and NUMBER Ute Tribal 01-09-E4				
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT BRUNDAGE CANYON				
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME				
6. NAME OF OPERATOR PETROGLYPH OPERATING CO						7. OPERATOR PHONE 208 685-7685				
8. ADDRESS OF OPERATOR 960 Broadway Avenue, Ste 500, Boise, ID, 83703						9. OPERATOR E-MAIL ppowell@pgei.com				
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) 1420H624743			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>				
13. NAME OF SURFACE OWNER (if box 12 = 'fee') Brian T. Bawden						14. SURFACE OWNER PHONE (if box 12 = 'fee') 8019642678				
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee') 3770 S 3760 W, ,						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')				
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>				
20. LOCATION OF WELL	FOOTAGES		QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN			
LOCATION AT SURFACE	2210 FSL 1650 FEL		NWSE	1	5.0 S	4.0 W	U			
Top of Uppermost Producing Zone	2230 FSL 645 FEL		NESE	1	5.0 S	4.0 W	U			
At Total Depth	2230 FSL 645 FEL		NESE	1	5.0 S	4.0 W	U			
21. COUNTY DUCESNE			22. DISTANCE TO NEAREST LEASE LINE (Feet) 1650		23. NUMBER OF ACRES IN DRILLING UNIT 707					
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 1701		26. PROPOSED DEPTH MD: 7138 TVD: 7005					
27. ELEVATION - GROUND LEVEL 5981			28. BOND NUMBER LPM4138153		29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 43-8342					
Hole, Casing, and Cement Information										
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
Cond	20	14	0 - 53	5.0	Unknown	10.0	Class G	25	1.17	15.8
Surf	12.25	8.625	0 - 493	24.0	J-55 ST&C	10.0	Class G	226	1.17	15.8
Prod	7.875	5.5	0 - 7138	15.5	J-55 LT&C	10.0	Class G	475	1.92	12.5
							Class G	477	1.46	13.4
ATTACHMENTS										
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES										
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN					
<input checked="" type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)					<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER					
<input type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP					
NAME Ed Trotter				TITLE Agent			PHONE 435 789-4120			
SIGNATURE				DATE 11/06/2013			EMAIL edtrotter@easilink.com			
API NUMBER ASSIGNED 43013526580000				APPROVAL Permit Manager						

CONFIDENTIAL
NINE POINT DRILLING PLAN
PETROGLYPH OPERATING COMPANY, INC
UTE TRIBAL 01-09-E4
NW SE, SEC 1, T5S, R4W
DUCHESNE COUNTY, UTAH

1. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Formation		Subsea	TVD	MD
Rig KB=~13' above GGL		5994	0	0
Surface Formation = Uinta				
Uinta		5981	13	13
Green River		4716	1278	1281
Trona		3357	2637	2692
Mahogany Shale		3204	2790	2854
"B" Marker	Waterflood Unit Interval	2066	3928	4047
"X" Marker		1563	4431	4560
Douglas Creek Marker		1417	4577	4708
"B" Limestone		1012	4982	5115
Base Castle Peak Limestone		477	5517	5659
BSCARB		66	5928	6061
Wasatch		-211	6205	6338
Formation at TD: Wasatch	Rig TD	-1011	7005	7138

2. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERAL FORMATIONS:

Substance	Formation	Subsea	TVD	MD
Base of moderately saline ground water*	not present	6000	NA	NA
Oil/Gas	Douglas Creek	1417	4577	4708
Oil/Gas	Castle Peak	477	5517	5659

Any water encountered during drilling shall be sampled, analyzed and reported to BLM, Vernal office using State of Utah DOGM Form 7 *Report of Water Encountered during Drilling*. The following analyses shall be performed on any water encountered:

Flow rate (or blowtest)	Temperature	pH	TDS
Dissolved Iron	Dissolved Magnesium	Dissolved Bicarb.	Dissolved Sulfate
Dissolved Calcium	Dissolved Sodium	Dissolved Carbonate	Dissolved Chloride

All depths through the "Base of moderately saline ground water"*, along with any water encountered below that depth which is less than 10,000 TDS, shall be protected by the surface casing or by lifting the cement of the production casing into the surface casing.

*Base of Moderately Saline Groundwater from Howells, Longson and Hunt, 1981, Utah State Technical Publication 92: The Base of the Moderately Saline Water in the Uinta Basin, Utah



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3. PROPOSED CASING PROGRAM:

String	Hole	Casing	Top - MD	Bottom - MD	Weight lb/ft	Grade	Thread
Conductor	20"	14"	surface	53'	steel	Cond'r	none
Surface	12-1/4"	8-5/8"	surface	493'	24	J-55	STC
Production	7-7/8"	5-1/2"	surface	7138'	15.5	J-55	LTC

String	Hole	Casing	Collapse	Burst	Tensile
Surface	12-1/4"	8-5/8"	1,370 psi	2,950 psi	244,000 lb
Production	7-7/8"	5-1/2"	4,040 psi	4,810 psi	248,000 lb

- All casing will be new or inspected.
- The surface and production strings shall have a minimum of one (1) centralizer on each of the bottom three (3) joints.
- The production string shall have a minimum of one (1) centralizer for every three (3) joints from TD to the top of the "B" marker at 4047' MD.

4. PROPOSED CEMENTING PROGRAM:

String	Top	Cement Description	Sacks	Excess	Weight (ppg)	Yield (ft³/sk)
	Bottom		Vol (ft³)			
Conductor	0 ----- 53	Construction Grade Cement	Sufficient volumes to grout Conductor			
Surface	0 ----- 493	Class G +2% CaCl2 +0.25 lb/sk Cello Flake	226 ----- 264	30%	15.8	1.17
Production Lead	0 ----- 4047	EXPANDACEM (Class G +additives) + 1 lb/sk Granulite TR¼ (LCM)	475 ----- 912	30%	12.5	1.92
Production Tail	4047 ----- 7138	EXPANDACEM (Class G +additives) + 1 lb/sk Granulite TR¼ (LCM)	477 ----- 696	30%	13.4	1.46

- The 8-5/8" surface casing shall be cemented back to surface. In the event that during the primary surface cementing operation the cement does not circulate to surface, or if the cement level should fall back more than 8 feet from surface, then a remedial surface cementing operation shall be performed to insure adequate isolation and stabilization of the surface casing.
- The 5-1/2" production casing shall be cemented back to surface. In the event that during the primary cementing operation the cement does not circulate to surface, a remedial cementing operation shall be performed only if necessary to lift cement above the Surface Casing Shoe at 493' MD.

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5. MINIMUM PRESSURE CONTROL AND SAFETY EQUIPMENT:

- An 8", 2000 PSI, Double Ram BOPE with Hydraulic Closing Unit shall be used.
- A 2000 PSI Working Pressure Annular shall be used.
- The flowline shall have a minimum diameter of 10".
- Auxiliary equipment shall be a Kelly Cock, Bit Float, and a TIW valve with drill pipe threads.
- Spark arrestors shall be equipped on all engine exhausts within 100 feet of the wellbore.
- See attached 2,000 psi BOP schematic diagram.

BOPE TESTING PROCEDURE:

- The BOPE shall be tested by a professional tester to conform to Onshore Order #2.

6. MUD PROGRAM:

A. SURFACE HOLE

- The surface hole will be drilled with an air/mist system from 0' to 493'. All cutting shall be directed to pit.
- A trailer-mounted compressor with a capacity of 2000 CFM will be used. Compressor will have a safety shut-off valve located less than 15 feet from the driller's controls of the rig.
- The rat and mouse holes will be drilled with the air rig after surface casing is cemented.
- The 140 barrel water truck used with the deduster will be the source of kill fluid in the highly unlikely event of pressure being encountered during drilling of the surface hole.
- Operator requests the following variances from Onshore Order 2 part E during drilling of the surface hole. Operator will use air drilling techniques only on surface hole:
 - Operator requests a variance to regulations requiring the blooie line discharge to be 100' from the wellbore. Due to reduced location size, the blooie line discharge will be approximately 75' from the wellbore and securely anchored.
 - Operator requests a variance to regulations requiring an automatic igniter or continuous pilot light on the blooie line. A mister shall be on the end of the blooie line.
 - Operator requests a variance to regulations requiring compressors be located in the opposite direction from the blooie line; a minimum of 100' from the wellbore. Due to the reduced location size, the compressors shall be located as close as is reasonable to the opposite direction from the blooie line and 75' from the wellbore.
 - Operator requests a variance to regulations requiring a BOPE on the hole when drilling the surface hole. An air bowl shall be utilized on the diverter system in place of a BOPE.



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B. PRODUCTION HOLE

- The production hole shall be drilled with a freshwater polymer system from 493' to 7138'. LSND mud if conditions warrant.
- Clay inhibition and hole stability shall be achieved with a Diammonium Phosphate (DAP) additive or similar source of clay-stabilizing ions. Anticipated mud weight is 8.3-8.8 lbs/gal. although mud weight up to 10lbs/gal may be used if necessary to prevent wellbore wall instability due to the planned inclination of the well.
- All cuttings and circulating medium shall be directed into the reserve pit. Total Dissolved Solids (TDS) are anticipated to be less than 3000 PPM.
- Sufficient mud inventory will be maintained on location in either tanks or the reserve pit during the drilling of the production hole to handle any adverse conditions that may arise.
- If necessary to control formation fluids or pressure, the system will be weighted with the addition of bentonite gel, and if pressure conditions warrant, with barite. Enough material shall be maintained on location to allow for the mudweight to be raised to 10.5 lbs/gal should need arise.
- During drilling operations, pit levels and flow from the well shall be monitored by instrumentation to include at least: a pit volume totalizer (PVT), a stroke counter, and a mud-flow indicator.
- A mud-gas separator shall be available on location.

C. HAZARDOUS MATERIALS AND POLLUTANTS

- Chromate additives **shall NOT** be used in the mud system on Indian lands without prior DOGM approval to ensure adequate protection of freshwater aquifers.
- Chemicals subject to reporting under SARA Title III in an amounts equal to or greater than 10,000 pounds annually **shall NOT** be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completion of this well.
- Extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities **shall NOT** be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completion of this well.
- Hazardous substances specifically listed by the EPA as a hazardous waste, as defined in 40 CFR 261 (D), or any substances that through their use would lead to the generation of a hazardous waste, **shall NOT** be used in association with the drilling, testing, or completion of this well.



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7. EVALUATION PROGRAM:

Logs: Triple Combo TD to base of surface casing (AIT, DSN, CDL)
Base of surface casing to surface (GR only)

Cores: None planned

DST: None planned

Testing: Operator plans no testing until the completion phase of the well.

8. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:

- Operator anticipates Bottom Hole Temperatures below 150°F, the maximum temperature for DAP drilling fluids.
- No H₂S has been encountered or is known to exist from previous drilling in the area at this depth.
- Maximum pressure for hydrocarbon bearing zones at native conditions in this area is approximately 1785 PSI (0.25 PSI/ft gradient).
- This well is NOT in the vicinity of active injection wells. Nearby active injection can cause pressures up to a 0.433 PSI/ft gradient .

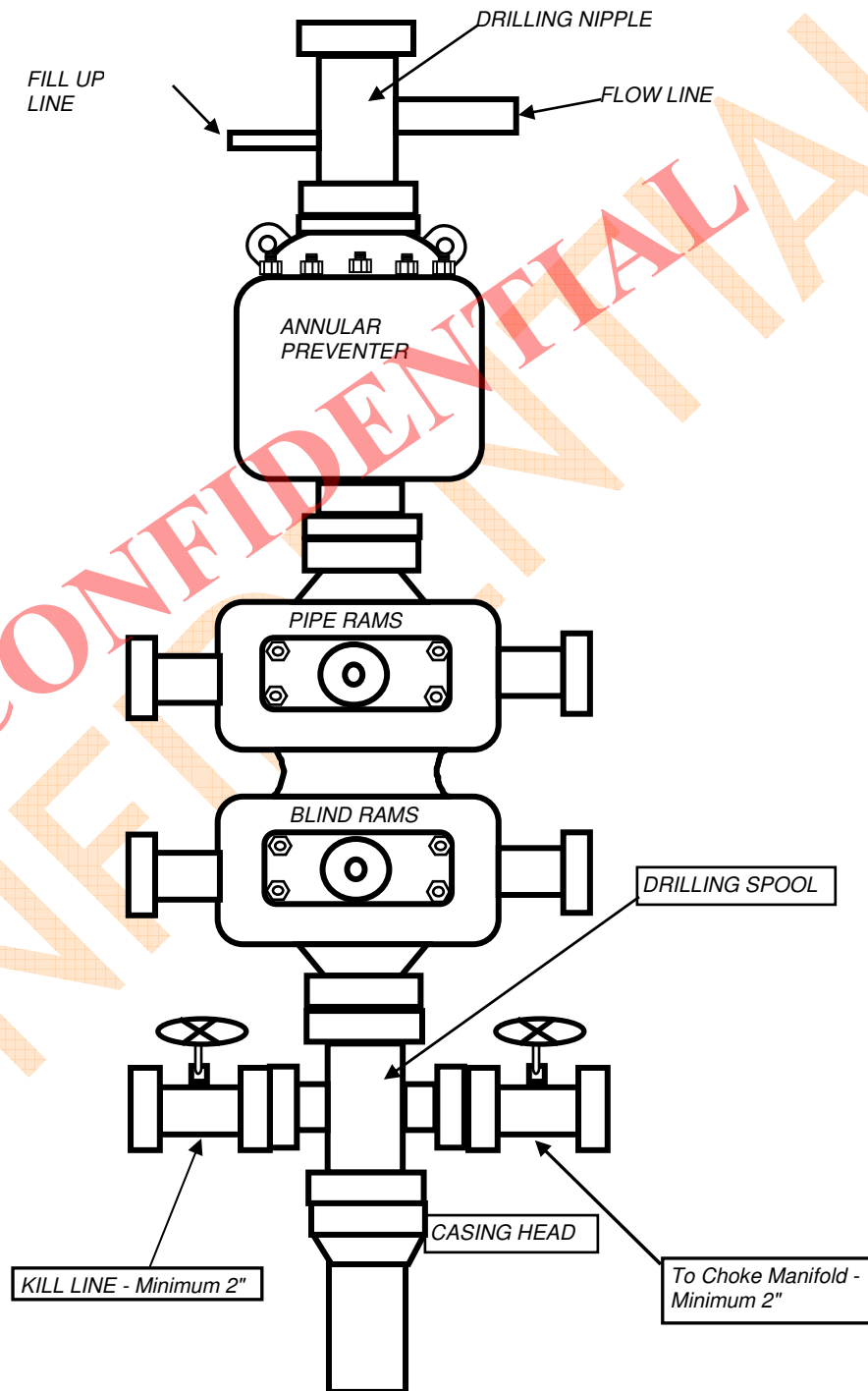
9. DIRECTIONAL WELL PLAN:

- Well shall be drilled directionally in order to limit surface disturbance.
- A Positive Displacement Motor with a bent sub of 1.25° to 1.75° will be used to control well path.
- A directional survey shall be taken at least one (1) time per 100' of drilling.
- Anti-collision equipment will not be used as there are no existing wells in the vicinity of the proposed well path.
- While cutting the Waterflood Unit Interval from 4047' to 6061', the actual well path may be allowed to vary up to 100' horizontally from plan in order to prevent excessive slide drilling. Above and below the Waterflood Unit Interval, variances in excess 100' horizontally from plan may be allowed.
- Directional drilling plan is attached.

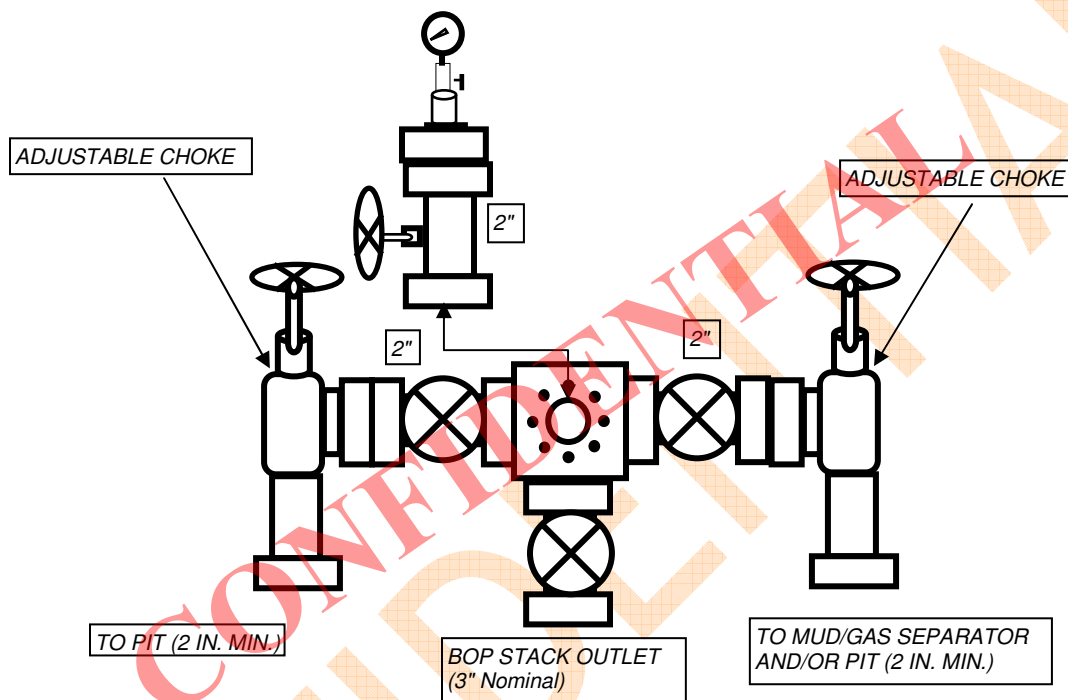


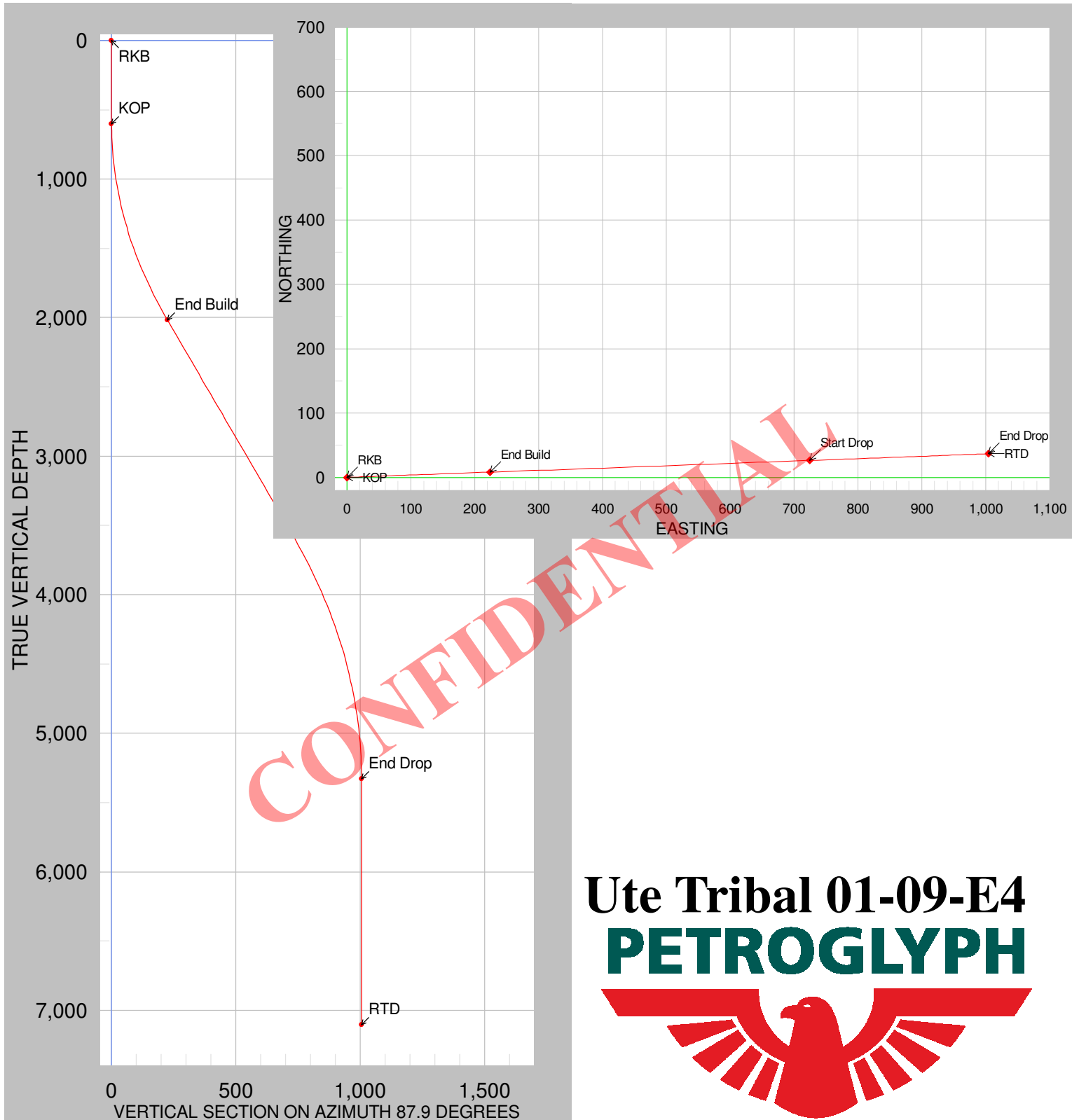
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TYPICAL 2,000 p.s.i. BLOWOUT PREVENTER



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TYPICAL 2,000 p.s.i. CHOKE MANIFOLD





#	Reference	Type	MD	Inc	Azi	TVD	N	E	DLS	Vert S
0	RKB	Tie Point	0.00	0.00	0.00	0.00	0.00	0.00		0.00
1	KOP	Vertical	600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00
2	End Build	Build	2040.00	18.00	87.90	2016.43	8.22	224.19	1.25	224.34
3	Start Drop	Tangent	3660.00	18.00	87.90	3557.14	26.56	724.46	0.00	724.95
4	End Drop	Drop	5460.00	0.00	0.00	5327.68	36.84	1004.70	1.00	1005.37
5	RTD	Vertical	7138.00	0.00	0.00	7005.68	36.84	1004.70	0.00	1005.37

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Operator		Units		feet, %/100ft		12:00 Wednesday, November 06, 2013		Page 1 of 5	
Field		County		Duchesne		Vertical Section Azimuth		87.9	
Well Name		State		UT		Survey Calculation Method		Minimum Curvature	
Plan		Country		USA		Database		Access	
Location		SHL: 2210' FSL & 1650' FEL		BHL: 2230' FSL & 645' FEL		MapZone		Lat Long Ref	
Site						SurfaceX		Surface Long	
Slot Name		UWI				SurfaceY		Surface Lat	
Well Number		API				Z Datum			
Project						Surface Z		Ground Level	
DIRECTIONAL WELL PLAN									
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN* SysTVD*
ft	deg	deg	ft	ft	ft	%/100ft	ft	ft	ft ft
*** RKB (at MD = 0.00)									
0.00	0.00	0.0	0.00	0.00	0.00		0.00		
50.00	0.00	0.0	50.00	0.00	0.00	0.00	0.00		
100.00	0.00	0.0	100.00	0.00	0.00	0.00	0.00		
150.00	0.00	0.0	150.00	0.00	0.00	0.00	0.00		
200.00	0.00	0.0	200.00	0.00	0.00	0.00	0.00		
250.00	0.00	0.0	250.00	0.00	0.00	0.00	0.00		
300.00	0.00	0.0	300.00	0.00	0.00	0.00	0.00		
350.00	0.00	0.0	350.00	0.00	0.00	0.00	0.00		
400.00	0.00	0.0	400.00	0.00	0.00	0.00	0.00		
450.00	0.00	0.0	450.00	0.00	0.00	0.00	0.00		
500.00	0.00	0.0	500.00	0.00	0.00	0.00	0.00		
550.00	0.00	0.0	550.00	0.00	0.00	0.00	0.00		
*** KOP (at MD = 600.00)									
600.00	0.00	0.0	600.00	0.00	0.00	0.00	0.00		
650.00	0.63	87.9	650.00	0.01	0.27	1.25	0.27		
700.00	1.25	87.9	699.99	0.04	1.09	1.25	1.09		
750.00	1.88	87.9	749.97	0.09	2.45	1.25	2.45		
800.00	2.50	87.9	799.94	0.16	4.36	1.25	4.36		
850.00	3.13	87.9	849.88	0.25	6.81	1.25	6.82		
900.00	3.75	87.9	899.79	0.36	9.81	1.25	9.81		
950.00	4.38	87.9	949.66	0.49	13.35	1.25	13.36		
1000.00	5.00	87.9	999.49	0.64	17.43	1.25	17.44		
1050.00	5.63	87.9	1049.28	0.81	22.06	1.25	22.07		
1100.00	6.25	87.9	1099.01	1.00	27.23	1.25	27.24		
1150.00	6.88	87.9	1148.68	1.21	32.94	1.25	32.96		
1200.00	7.50	87.9	1198.29	1.44	39.19	1.25	39.21		
1250.00	8.13	87.9	1247.82	1.69	45.98	1.25	46.01		
1300.00	8.75	87.9	1297.28	1.95	53.31	1.25	53.35		
1350.00	9.38	87.9	1346.66	2.24	61.18	1.25	61.22		
1400.00	10.00	87.9	1395.94	2.55	69.59	1.25	69.64		
1450.00	10.63	87.9	1445.14	2.88	78.53	1.25	78.59		
1500.00	11.25	87.9	1494.23	3.23	88.01	1.25	88.07		
1550.00	11.88	87.9	1543.21	3.59	98.03	1.25	98.10		
1600.00	12.50	87.9	1592.09	3.98	108.58	1.25	108.65		
1650.00	13.13	87.9	1640.84	4.39	119.66	1.25	119.74		

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Operator			Units	feet, %/100ft		12:00 Wednesday, November 06, 2013 Page 2 of 5				
Field			County	Duchesne		Vertical Section Azimuth 87.9				
Well Name	01-09-E4		State	UT		Survey Calculation Method Minimum Curvature				
Plan	1		Country	USA		Database Access				
Location	SHL: 2210' FSL & 1650' FEL BHL: 2230' FSL & 645' FEL			MapZone		Lat Long Ref				
Site				SurfaceX		Surface Long				
Slot Name	UWI			SurfaceY		Surface Lat				
Well Number	API			Z Datum						
Project				Surface Z		Ground Level				
DIRECTIONAL WELL PLAN										
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN* SysTVD*	
ft	deg	deg	ft	ft	ft	%/100ft	ft	ft	ft ft	
1700.00	13.75	87.9	1689.47	4.81	131.27	1.25	131.36			
1750.00	14.38	87.9	1737.97	5.26	143.41	1.25	143.51			
1800.00	15.00	87.9	1786.34	5.72	156.08	1.25	156.18			
1850.00	15.63	87.9	1834.56	6.21	169.27	1.25	169.39			
1900.00	16.25	87.9	1882.64	6.71	183.00	1.25	183.12			
1950.00	16.88	87.9	1930.57	7.23	197.24	1.25	197.37			
2000.00	17.50	87.9	1978.33	7.77	212.00	1.25	212.15			
*** END BUILD (at MD = 2040.00)										
2040.00	18.00	87.9	2016.43	8.22	224.19	1.25	224.34			
2050.00	18.00	87.9	2025.94	8.33	227.28	0.00	227.43			
2100.00	18.00	87.9	2073.49	8.90	242.72	0.00	242.88			
2150.00	18.00	87.9	2121.05	9.47	258.16	0.00	258.33			
2200.00	18.00	87.9	2168.60	10.03	273.60	0.00	273.78			
2250.00	18.00	87.9	2216.15	10.60	289.04	0.00	289.23			
2300.00	18.00	87.9	2263.70	11.16	304.48	0.00	304.68			
2350.00	18.00	87.9	2311.26	11.73	319.92	0.00	320.14			
2400.00	18.00	87.9	2358.81	12.30	335.36	0.00	335.59			
2450.00	18.00	87.9	2406.36	12.86	350.80	0.00	351.04			
2500.00	18.00	87.9	2453.92	13.43	366.24	0.00	366.49			
2550.00	18.00	87.9	2501.47	14.00	381.68	0.00	381.94			
2600.00	18.00	87.9	2549.02	14.56	397.12	0.00	397.39			
2650.00	18.00	87.9	2596.57	15.13	412.56	0.00	412.84			
2700.00	18.00	87.9	2644.13	15.69	428.00	0.00	428.29			
2750.00	18.00	87.9	2691.68	16.26	443.44	0.00	443.74			
2800.00	18.00	87.9	2739.23	16.83	458.88	0.00	459.19			
2850.00	18.00	87.9	2786.79	17.39	474.33	0.00	474.64			
2900.00	18.00	87.9	2834.34	17.96	489.77	0.00	490.10			
2950.00	18.00	87.9	2881.89	18.53	505.21	0.00	505.55			
3000.00	18.00	87.9	2929.44	19.09	520.65	0.00	521.00			
3050.00	18.00	87.9	2977.00	19.66	536.09	0.00	536.45			
3100.00	18.00	87.9	3024.55	20.22	551.53	0.00	551.90			
3150.00	18.00	87.9	3072.10	20.79	566.97	0.00	567.35			
3200.00	18.00	87.9	3119.66	21.36	582.41	0.00	582.80			
3250.00	18.00	87.9	3167.21	21.92	597.85	0.00	598.25			
3300.00	18.00	87.9	3214.76	22.49	613.29	0.00	613.70			

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Operator		Units	feet, %/100ft	12:00 Wednesday, November 06, 2013	Page 3 of 5
Field		County	Duchesne	Vertical Section Azimuth	87.9
Well Name	01-09-E4	State	UT	Survey Calculation Method	Minimum Curvature
Plan	1	Country	USA	Database	Access

Location	SHL: 2210' FSL & 1650' FEL BHL: 2230' FSL & 645' FEL			MapZone	Lat Long Ref
Site				SurfaceX	Surface Long
Slot Name		UWI		SurfaceY	Surface Lat
Well Number		API		Z Datum	
Project				Surface Z	Ground Level

DIRECTIONAL WELL PLAN

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	%/100ft	ft	ft	ft	ft
3350.00	18.00	87.9	3262.31	23.05	628.73	0.00	629.15			
3400.00	18.00	87.9	3309.87	23.62	644.17	0.00	644.60			
3450.00	18.00	87.9	3357.42	24.19	659.61	0.00	660.05			
3500.00	18.00	87.9	3404.97	24.75	675.05	0.00	675.51			
3550.00	18.00	87.9	3452.52	25.32	690.49	0.00	690.96			
3600.00	18.00	87.9	3500.08	25.89	705.93	0.00	706.41			
3650.00	18.00	87.9	3547.63	26.45	721.37	0.00	721.86			
*** START DROP (at MD = 3660.00)										
3660.00	18.00	87.9	3557.14	26.56	724.46	0.00	724.95			
3700.00	17.60	87.9	3595.23	27.01	736.68	1.00	737.18			
3750.00	17.10	87.9	3642.95	27.56	751.58	1.00	752.09			
3800.00	16.60	87.9	3690.80	28.09	766.06	1.00	766.58			
3850.00	16.10	87.9	3738.78	28.61	780.13	1.00	780.65			
3900.00	15.60	87.9	3786.88	29.11	793.78	1.00	794.31			
3950.00	15.10	87.9	3835.10	29.59	807.00	1.00	807.55			
4000.00	14.60	87.9	3883.43	30.06	819.81	1.00	820.36			
4050.00	14.10	87.9	3931.87	30.52	832.19	1.00	832.75			
4100.00	13.60	87.9	3980.41	30.95	844.15	1.00	844.72			
4150.00	13.10	87.9	4029.06	31.38	855.69	1.00	856.27			
4200.00	12.60	87.9	4077.81	31.78	866.80	1.00	867.39			
4250.00	12.10	87.9	4126.65	32.18	877.49	1.00	878.08			
4300.00	11.60	87.9	4175.59	32.55	887.75	1.00	888.35			
4350.00	11.10	87.9	4224.61	32.91	897.59	1.00	898.19			
4400.00	10.60	87.9	4273.71	33.26	906.99	1.00	907.60			
4450.00	10.10	87.9	4322.90	33.59	915.97	1.00	916.58			
4500.00	9.60	87.9	4372.16	33.90	924.52	1.00	925.14			
4550.00	9.10	87.9	4421.50	34.20	932.63	1.00	933.26			
4600.00	8.60	87.9	4470.90	34.48	940.32	1.00	940.95			
4650.00	8.10	87.9	4520.37	34.75	947.58	1.00	948.21			
4700.00	7.60	87.9	4569.90	35.00	954.40	1.00	955.04			
4750.00	7.10	87.9	4619.49	35.23	960.79	1.00	961.44			
4800.00	6.60	87.9	4669.14	35.45	966.75	1.00	967.40			
4850.00	6.10	87.9	4718.83	35.65	972.28	1.00	972.93			
4900.00	5.60	87.9	4768.57	35.84	977.37	1.00	978.03			
4950.00	5.10	87.9	4818.35	36.01	982.03	1.00	982.69			

01-09-E4, Plan 1

Operator		Units		feet, %/100ft		12:00 Wednesday, November 06, 2013 Page 4 of 5			
Field		County		Duchesne		Vertical Section Azimuth 87.9			
Well Name		State		UT		Survey Calculation Method Minimum Curvature			
Plan 1		Country		USA		Database Access			
Location		SHL: 2210' FSL & 1650' FEL BHL: 2230' FSL & 645' FEL		MapZone		Lat Long Ref			
Site				SurfaceX		Surface Long			
Slot Name		UWI		SurfaceY		Surface Lat			
Well Number		API		Z Datum					
Project				Surface Z		Ground Level			
DIRECTIONAL WELL PLAN									
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN* SysTVD*
ft	deg	deg	ft	ft	ft	%/100ft	ft	ft	ft ft
5000.00	4.60	87.9	4868.17	36.16	986.26	1.00	986.92		
5050.00	4.10	87.9	4918.03	36.30	990.04	1.00	990.71		
5100.00	3.60	87.9	4967.91	36.43	993.40	1.00	994.07		
5150.00	3.10	87.9	5017.83	36.53	996.32	1.00	996.99		
5200.00	2.60	87.9	5067.77	36.62	998.80	1.00	999.48		
5250.00	2.10	87.9	5117.73	36.70	1000.85	1.00	1001.53		
5300.00	1.60	87.9	5167.70	36.76	1002.47	1.00	1003.14		
5350.00	1.10	87.9	5217.68	36.80	1003.64	1.00	1004.32		
5400.00	0.60	87.9	5267.68	36.83	1004.38	1.00	1005.06		
5450.00	0.10	87.9	5317.68	36.84	1004.69	1.00	1005.36		
*** END DROP (at MD = 5460.00)									
5460.00	0.00	0.0	5327.68	36.84	1004.70	1.00	1005.37		
5500.00	0.00	0.0	5367.68	36.84	1004.70	0.00	1005.37		
5550.00	0.00	0.0	5417.68	36.84	1004.70	0.00	1005.37		
5600.00	0.00	0.0	5467.68	36.84	1004.70	0.00	1005.37		
5650.00	0.00	0.0	5517.68	36.84	1004.70	0.00	1005.37		
5700.00	0.00	0.0	5567.68	36.84	1004.70	0.00	1005.37		
5750.00	0.00	0.0	5617.68	36.84	1004.70	0.00	1005.37		
5800.00	0.00	0.0	5667.68	36.84	1004.70	0.00	1005.37		
5850.00	0.00	0.0	5717.68	36.84	1004.70	0.00	1005.37		
5900.00	0.00	0.0	5767.68	36.84	1004.70	0.00	1005.37		
5950.00	0.00	0.0	5817.68	36.84	1004.70	0.00	1005.37		
6000.00	0.00	0.0	5867.68	36.84	1004.70	0.00	1005.37		
6050.00	0.00	0.0	5917.68	36.84	1004.70	0.00	1005.37		
6100.00	0.00	0.0	5967.68	36.84	1004.70	0.00	1005.37		
6150.00	0.00	0.0	6017.68	36.84	1004.70	0.00	1005.37		
6200.00	0.00	0.0	6067.68	36.84	1004.70	0.00	1005.37		
6250.00	0.00	0.0	6117.68	36.84	1004.70	0.00	1005.37		
6300.00	0.00	0.0	6167.68	36.84	1004.70	0.00	1005.37		
6350.00	0.00	0.0	6217.68	36.84	1004.70	0.00	1005.37		
6400.00	0.00	0.0	6267.68	36.84	1004.70	0.00	1005.37		
6450.00	0.00	0.0	6317.68	36.84	1004.70	0.00	1005.37		
6500.00	0.00	0.0	6367.68	36.84	1004.70	0.00	1005.37		
6550.00	0.00	0.0	6417.68	36.84	1004.70	0.00	1005.37		
6600.00	0.00	0.0	6467.68	36.84	1004.70	0.00	1005.37		

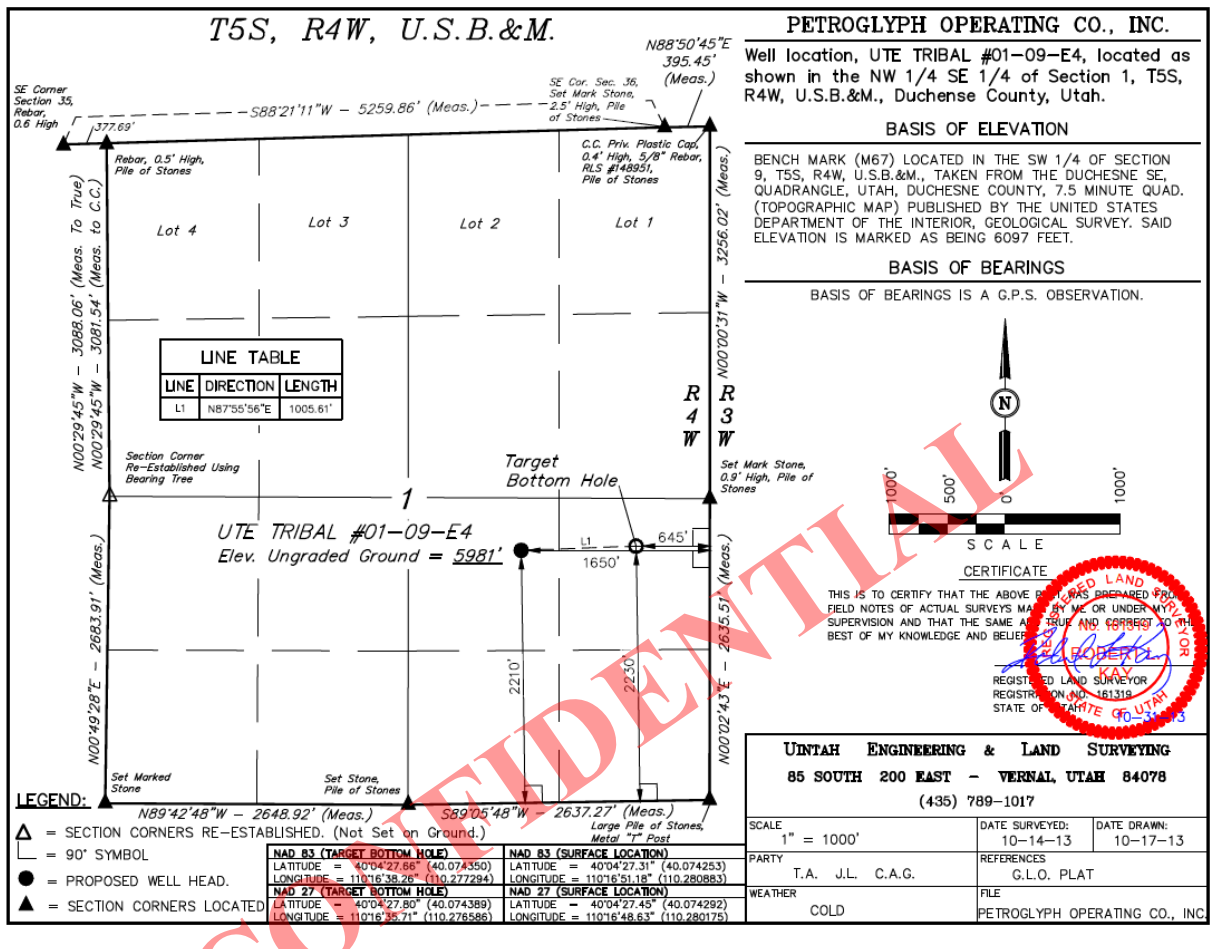
01-09-E4, Plan 1

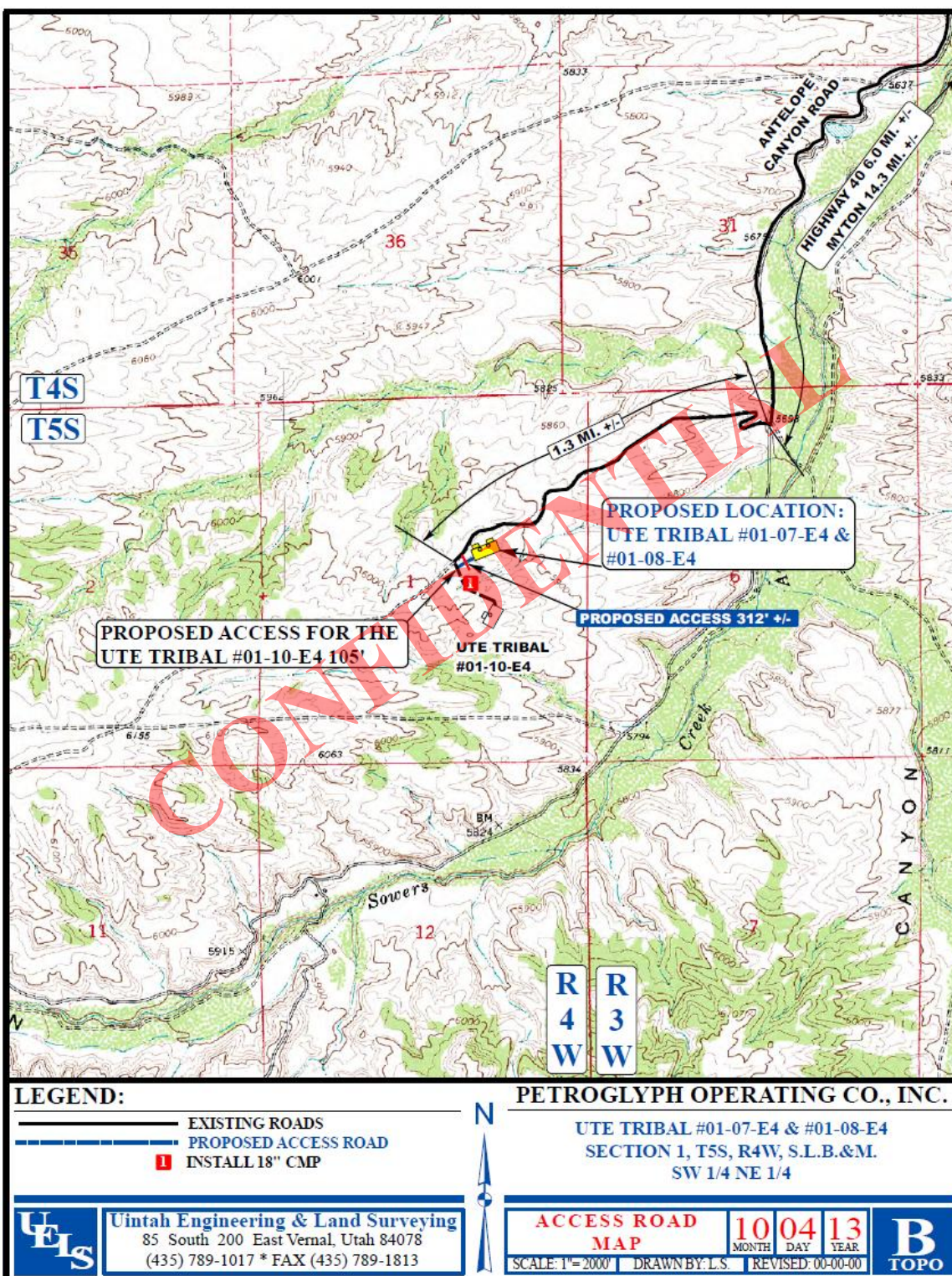
Operator		Units	feet, %/100ft	12:00 Wednesday, November 06, 2013	Page 5 of 5
Field		County	Duchesne	Vertical Section Azimuth	87.9
Well Name	01-09-E4	State	UT	Survey Calculation Method	Minimum Curvature
Plan	1	Country	USA	Database	Access

Location	SHL: 2210' FSL & 1650' FEL BHL: 2230' FSL & 645' FEL			MapZone	Lat Long Ref
Site				SurfaceX	Surface Long
Slot Name		UWI		SurfaceY	Surface Lat
Well Number		API		Z Datum	
Project				Surface Z	Ground Level

DIRECTIONAL WELL PLAN

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	%/100ft	ft	ft	ft	ft
6650.00	0.00	0.0	6517.68	36.84	1004.70	0.00	1005.37			
6700.00	0.00	0.0	6567.68	36.84	1004.70	0.00	1005.37			
6750.00	0.00	0.0	6617.68	36.84	1004.70	0.00	1005.37			
6800.00	0.00	0.0	6667.68	36.84	1004.70	0.00	1005.37			
6850.00	0.00	0.0	6717.68	36.84	1004.70	0.00	1005.37			
6900.00	0.00	0.0	6767.68	36.84	1004.70	0.00	1005.37			
6950.00	0.00	0.0	6817.68	36.84	1004.70	0.00	1005.37			
7000.00	0.00	0.0	6867.68	36.84	1004.70	0.00	1005.37			
7050.00	0.00	0.0	6917.68	36.84	1004.70	0.00	1005.37			
7100.00	0.00	0.0	6967.68	36.84	1004.70	0.00	1005.37			
*** RTD (at MD = 7138.00)										
7138.00	0.00	0.0	7005.68	36.84	1004.70	0.00	1005.37			





MEMORANDUM OF SURFACE USE AND RIGHT-OF-WAY AGREEMENT

THIS MEMORANDUM WITNESSES:

THAT on the 16th day of June, 1997, between LEE H MOON AND KATHY MOON, husband and wife, , whose address is East Old Highway 40, Duchesne, Utah 84021 (GRANTOR), in consideration of the covenants and agreements contained in that certain Surface Use and Right-Of-Way Agreement dated JUNE 25th 1997 (the "Agreement"), has granted and conveyed, and by these presents does hereby grant and convey to PETROGLYPH OPERATING COMPANY, INC., whose address is 6209 North Highway 61, P.O. Box 1839, Hutchinson, Kansas 67502 (GRANTEE), certain rights of surface use, rights-of-way, and easements for the exploration, development, production, and transportation of oil and gas in, on, over, through and across certain real property owned by GRANTOR and situated in the County of Duchesne, State of Utah, and more particularly described as follows:

Township 4 South - Range 4 West USM

Section 24: All

Section 25: All

Section 26: All

Section 35: All

Section 36: All

Township 4 South - Range 3 West USM

Section 19: All

Section 28: N/2 SW/4, NW/4 SE/4

Section 29: NE/4 SE/4

Section 32: All less NW/4 NW/4

Township 5 South - Range 4 West USM

Section 1: All

Containing 5,289.65 acres, more or less.

E 320858 B AD280 P 251
DATE 1-JUL-1997 16:24PM FEE 22.00
CAROLYN B. MADSEN, RECORDER
FILED BY CRY
FOR ED TROTTER
DUCESNE COUNTY CORPORATION

Said rights and uses are granted upon and subject to all of the terms and conditions set forth in the Agreement, executed by GRANTOR and GRANTEE, which Agreement is held by and can be inspected by parties having a vested interest in the Agreement and/or subject property during reasonable business hours at the offices of GRANTOR or GRANTEE. Such uses, rights-of-way and easements are granted for the full period of development of and the production life of any of the wells, appurtenances and facilities associated therewith.

IN WITNESS WHEREOF, this Memorandum has been duly executed this 25th day of JUNE, 1997.

GRANTOR LEE H MOON AND KATHY MOON

By: Lee H Moon

By: Kathy Moon

GRANTEE PETROGLYPH OPERATING COMPANY, INC.

By: Ed L. Statter
Its Agent

ACKNOWLEDGMENTS

STATE OF UTAH)
 : ss.
COUNTY OF DUCHESNE)

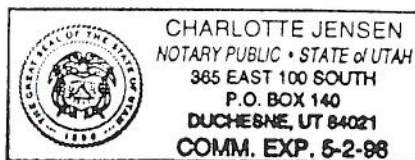
The foregoing instrument was acknowledged before me this 25th day of June, 1997 by LEE H MOON AND KATHY MOON, husband and wife.

Charlotte Jensen

Notary Public
Residing in: Duchesne, UT

Commission Expires:

5-2-98



ACKNOWLEDGMENT

STATE OF UTAH)
 : ss.
COUNTY OF DUCHESNE)
~~SALEE LAKE~~

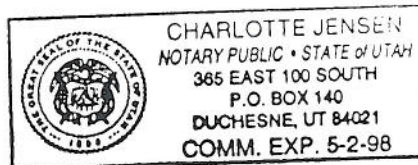
The foregoing instrument was acknowledged before me this 25th day of June, 1997 by Ed L. Statter, the Agent of PETROGLYPH OPERATING COMPANY, INC.

Charlotte Jensen

Notary Public
Residing in: Duchesne, UT

My Commission Expires:

5-2-98



SURFACE USE AND RIGHT-OF-WAY AGREEMENT

Agreement entered into this June 25, 1997 by and between LEE H. MOON AND KATHY MOON, husband and wife, , whose address is East Old Highway 40, Duchesne, Utah 84021 (hereinafter "GRANTOR") and PETROGLYPH OPERATING COMPANY, INC., whose address is 6209 North Highway 61, P.O. Box 1839, Hutchinson, Kansas 67502, (hereinafter "PETROGLYPH");

RECITALS

A. GRANTOR is the owner of all or a portion of the surface estate of lands located in Duchesne County, Utah, and more particularly described as:

Township 4 South - Range 4 West USM

Section 24: All
Section 25: All
Section 26: All
Section 35: All
Section 36: All

Township 4 South - Range 3 West USM

Section 19: All
Section 28: N/2 SW/4, NW/4 SE/4
Section 29: NE/4 SE/4
Section 32: All less NW/4 NW/4

Township 5 South - Range 4 West USM

Section 1: All

Containing 5,289.65 acres, more or less.

Said lands are hereinafter referred to as the "Subject Lands";

B. GRANTOR or GRANTOR's predecessors acquired all or part of the surface estate of the Subject Lands from the Ute Indian Tribe pursuant to 1) the Act of June 18, 1934, (48 Stat. 984), 2) the Act of March 11, 1948 (62 Stat. 72), or 3) from the United States under certain of the private entry and homestead Acts;

C. PETROGLYPH is in the business of exploring for, developing, and producing oil and gas deposits;

D. PETROGLYPH is the lessee of and/or owns the operating rights in numerous Indian and other oil and gas leases covering a portion of the Subject Lands and/or other lands in Duchesne County;

E. A map depicting the Subject Lands and surrounding lands is attached hereto as Exhibit "A," which by this reference is incorporated herein;

F. PETROGLYPH anticipates increased operations for the development and enhanced recovery of oil and gas reserves within and in proximity to the Subject Lands. These operations require access to and rights-of-way on and over and use of the Subject Lands and the construction, maintenance and operation of well sites, power lines, natural gas delivery systems, pipelines, compressor stations and appurtenances; and

G. PETROGLYPH has permitted or is in the process of permitting the drilling, production and enhanced recovery of oil and gas wells located on the Subject Lands, and/or on other lands in Duchesne County.

NOW THEREFORE, FOR AND IN CONSIDERATION OF TEN DOLLARS (\$10.00) PAID AND THE PAYMENTS AND THE TERMS AND CONDITIONS AND COVENANTS PROVIDED HEREIN, GRANTOR grants and conveys to PETROGLYPH, its successors and assigns, easements and the right to use and occupy those portions of the Subject Lands as may be necessary (a) for oil and gas exploration, including, but not limited to, the placement of seismic lines and other exploration activities, (b) to conduct its drilling and production operations on said property, including the right to construct and maintain, rework, replace, and operate oil and gas well sites, and enhanced oil and gas recovery operations (c) to construct, entrench, maintain, operate, replace, remove, and protect pipelines for water, oil or gas with appurtenances thereto, including, but not limited to, valves, compressors, metering equipment, and cathodic equipment, (d) to construct, maintain or cover up any pits or ponds necessary for drilling operations or water storage, (e) to erect, maintain, relocate, replace or remove production Facilities, including, but not limited to, pumps, compressors, separators and treaters, and (f) to construct, maintain, relocate, or abandon roads, and in connection therewith, power and communication lines (said well sites, pipelines, appurtenances, valves, metering equipment, cathodic equipment, road and power lines being sometimes collectively called the "Facilities") in, on, over, under and through the Subject Lands to the extent of GRANTOR's ownership therein.

PETROGLYPH shall have the free right of ingress and egress in, on, over, upon, through and across said rights-of-way and easements for any and all purposes that may be necessary or incidental to the maintenance of the right-of-ways and easements with the right to use existing roads which enter GRANTOR's property for the purpose of constructing, inspecting, repairing and maintaining the Facilities and the removal or replacement of same at will, either in whole or in part, and the replacement of said pipelines with either like or different size pipe. During temporary periods, PETROGLYPH may use such portions of the property along and adjacent to said rights-of-way as may be necessary in connection with construction, maintenance, repair, removal or replacement of the Facilities and if such use causes any damages to GRANTOR's lands outside of the above described rights-of-way, PETROGLYPH shall pay GRANTOR for such damages in accordance with the provisions of the Agreement.

Where economically feasible and reasonable, PETROGLYPH will utilize a "development corridor" right-of-way approach in its development operations. PETROGLYPH is to limit disturbance to that land reasonably necessary for well drilling, development, and subsequent on-site operations and to a width no greater than 60 feet for roads and pipeline corridors.

PETROGLYPH to have and hold the above described rights and easements, together with all rights necessary to operate and maintain the Facilities from the date of written notice to GRANTOR in the form as set forth in Exhibit "B" for the term, under the conditions and for the consideration as set forth herein until such time as such rights-of-way and easements are abandoned or terminated under the terms provided herein. When PETROGLYPH intends to use and occupy any portion of the Subject Lands owned by the GRANTOR, PETROGLYPH shall give the GRANTOR written notice of surface use and easement using the form attached hereto as Exhibit "B", together with payment for the additional rights in accordance with the compensation provisions as provided below. Upon receipt of such notice, GRANTOR shall have seven (7) days within which to review the proposed surface use and notify PETROGLYPH of any objections regarding location or other concerns and offer specific reasonable alternatives or modifications to the location or other concern. PETROGLYPH will consider such alternatives and, if deemed to be reasonable and practical under the particular circumstances, will

accommodate GRANTOR by modifying its place of surface use in whole or in part accordingly. PETROGLYPH agrees in the conduct of its operations upon the Subject Property to the following:

- (a) To construct the rights-of-way, drill pads and other Facilities in a prompt and workmanlike manner;
- (b) To stockpile and replace top soil and take other reasonable soil and resource conservation and protection measures on the lands covered by the rights-of-way and surface use locations and Facilities;
- (c) To take reasonable precautions to prevent fires on the lands covered by the rights-of-way and surface use locations and Facilities;
- (d) To rebuild and/or repair any road, gates, fences, or other appurtenances or improvements as may be destroyed or damaged by PETROGLYPH's activities and to build and maintain necessary and suitable crossing and drainage structures, install cattle guards with offset gates for all roads and ways that intersect the works constructed, maintained, or operated under the rights-of-way, surface use locations, and Facilities. Fence gates installed shall be of steel construction (Powder River type). Any fences installed by the GRANTOR, which cross roads granted hereunder, shall have installed, at GRANTOR's discretion, cattle guards with offset gates. Cattle guards and fence gates shall be of steel construction (Powder River type). PETROGLYPH shall have the option of supplying the gates and cattle guards, or reimbursing GRANTOR for the actual costs thereof. PETROGLYPH will grade, level and reseed areas disturbed but not used for roads or Facilities and Well Sites.
- (e) To take reasonable steps to minimize dust from vehicular use on the roads constructed hereunder;
- (f) To post "no trespassing" or other appropriate signs notifying the public that the road right-of-way and subject Property are privately owned. Such sign shall be conspicuously posted on any new roads constructed by PETROGLYPH hereunder;
- (g) To control the growth and spread of noxious weeds on and from the rights-of-way, drill pads, and other areas of the Subject Lands disturbed by PETROGLYPH. For the purposes of this Agreement, noxious weeds shall be those plants listed currently and from time-to-time on the Utah Weed Control List prepared by the Utah Department of Agriculture.

PETROGLYPH may assign the rights and easements herein granted, either in whole or in part, subject to the terms of this grant and Agreement, and such rights and easements shall be covenants running with the land and be binding upon GRANTOR, GRANTOR's heirs, assigns, legal representatives and successors in title. Upon abandonment of any of the rights-of-way or easements granted hereunder, at the request of the GRANTOR, PETROGLYPH shall execute and deliver to GRANTOR a document in recordable form evidencing said abandonment.

As full payment and compensation for the rights and easements conveyed and granted and to be conveyed and granted hereunder, including any amounts for damage to growing crops, timber and other vegetation, PETROGLYPH shall remit to the GRANTOR, in conjunction with delivery of notices of surface use and easement, payments equal to Five Hundred Dollars (\$500.00) per acre, or two (2) times the market value per acre, whichever is greater (not to exceed One Thousand Dollars (\$ 1000.00) per acre), of the lands disturbed or made subject to the uses and easement stated in the notice. Said market value shall be based upon the market value established and maintained by the Duchesne County Assessor for the property subject to the use and/or easement. GRANTOR accepts such payments in full and complete payment, settlement, compromise and satisfaction of any and all losses, liabilities, claims, damages, demands and causes of action relating to any and all injuries and damages to the surface of the land with the exception of PETROGLYPH's duty to reclaim upon abandonment of any of the easements or uses granted herein or upon termination of this Agreement.

GRANTOR reserves the right to the use and enjoyment of the Subject Land except for the purposes herein granted, but such use shall not hinder, conflict, or interfere with PETROGLYPH's surface or sub-surface rights or disturb its Facilities and operations. No road, reservoir, excavation, obstruction or structure shall be constructed, created or maintained on, over, along or within the lands occupied by any Facilities by GRANTOR or with GRANTOR's consent or acquiescence without PETROGLYPH's prior written consent, which consent shall not be unreasonably withheld.

GRANTOR hereby covenants and warrants that it is the surface owner of all of or an undivided interest in the Subject Lands, and has the legal right and authority to enter into this Agreement and grant the rights granted herein.

If, at any time during the term of this Agreement, PETROGLYPH determines that GRANTOR owns all or any portion of the mineral estate underlying the Subject Lands and that all or any portion of that mineral estate are not leased for oil, gas, and other hydrocarbons, GRANTOR agrees to lease same to PETROGLYPH on the following terms and conditions:

- (a) A three (3) year primary term and so long thereafter as there is production in paying quantities;
- (b) annual rentals of \$2.00 per net mineral acre paid up at signing; and
- (c) royalty of 16-2/3%
- (d) PETROGLYPH will provide GRANTOR, at the time of the signing of the oil and gas lease, a copy of a minerals status report identifying the minerals interest owned by GRANTOR.

The rights-of-way, easements, and surface uses granted herein are and will be issued for the full period of development and the production life of the wells, appurtenances and Facilities associated therewith, including reworking and enhanced recovery operations and resultant production. Any right-of-way that is not used for a continuous period of three years shall be deemed abandoned and terminated and shall be reclaimed as herein agreed. In the event PETROGLYPH does not exercise the rights granted herein as to any government surveyed Section (constituting 640 acres, more or less) of the subject Lands (or such smaller portion within any section if GRANTOR does not own all of the surface of such Section) for a period of ten (10) years from the date of this Agreement, this Agreement shall terminate as to that government Section or part thereof.

PETROGLYPH, its successors and assigns, shall at all times exercise reasonable care in its exploration, drilling, completion and production operations to avoid the spilling, improper disposal or release of pollutants, hazardous substances and hazardous waste in, on or under the GRANTOR's property and to comply with all relevant and applicable federal, state and local statutes and regulations, including, but not limited to, all environmental laws now in force and hereinafter enacted.

Upon the termination of this Agreement, the end of the production life of any well or abandonment of any Facilities installed, PETROGLYPH shall have the right of access to the captioned lands in order to restore such well-site, right-of-way or other surface disturbance to the approximate condition it was in prior to commencement of such surface use, so far as is reasonably possible. All reclamation shall be at the sole expense of PETROGLYPH. Said reclamation work and abandonment and plugging of wells shall be done in accordance with federal, state, county, or local laws and regulations in force at such time.

In the event of PETROGLYPH's failure to comply with any material provisions of this Agreement, GRANTOR shall provide PETROGLYPH with notice setting forth the nature of such non-compliance. If the non-

compliance relates to the payment of money as set forth herein, PETROGLYPH shall have thirty (30) days following receipt of such notice to cure such non-compliance. If the non-compliance relates to matters other than the payment of money, PETROGLYPH shall have sixty (60) days to commence, and to pursue diligently to completion, appropriate action to cure the non-compliance. In the event that PETROGLYPH fails to cure, or to commence appropriate action to cure the non-compliance within the prescribed period, GRANTOR may thereupon terminate this Agreement by giving PETROGLYPH 15 days written notice to that effect. Such termination shall not affect prior rights and easements granted PETROGLYPH, its predecessors, successors or assigns under this Agreement or under prior grants, conveyances, or Agreements. In the event of a dispute over compliance or performance under this Agreement, such dispute shall not be grounds for interruption of the performance under this Agreement by either party, nor will PETROGLYPH's operations hereunder be interrupted, delayed, or impaired during the pendency of such dispute. The parties agree to attempt to settle expeditiously all dispute(s) and objection(s) under this Agreement by mediation under the Commercial Mediation Rules of the American Arbitration Association, before resulting to arbitration. If the parties are unable by mediation to resolve or settle the dispute(s) or objection(s), the parties agree to submit such dispute(s) or objection(s) to binding arbitration in accordance with the Commercial Arbitration Rules of the American Arbitration Association in effect at the time of arbitration.

If PETROGLYPH is delayed or interrupted in or prevented from performing any acts or obligations provided in this Agreement by acts of God, fires, weather, floods, strikes or labor troubles, breakage of machinery, inability to obtain necessary materials, supplies or labor, interruptions in delivery or transportation, insurrection or mob violence, injunction, regulations or order or requirement of Government or other disabling cause beyond its reasonable control, then and in all such cases PETROGLYPH shall, for the time being and without liability, be excused from performance of such acts or obligations during the period of such prevention, delay or disability. This Agreement and all provisions hereof shall again come into full force and effect immediately upon termination of the period of prevention, delay or disability resulting from any of the causes aforesaid. PETROGLYPH shall give GRANTOR prompt written notice of any periods of such delay or prevention together with the reason or reasons for same. Following termination of such prevention or delay, PETROGLYPH shall give prompt written notice of same to GRANTOR.

All notices under this Agreement shall be given in writing and shall be sent (a) certified mail, return receipt requested, or (b) by Federal Express, or similar overnight carrier service, to the parties at the addresses provided on page 1 of this Agreement. Notices shall be deemed effective when received. Any party may change its address for receipt of notices by sending notice of the change to the other party as provided for in this paragraph.

This Agreement and the grants and conveyances hereunder shall be binding upon the parties and their respective heirs, executors, administrators, successors and assigns. All representations, warrantys, terms, conditions and covenants contained in this Agreement shall survive execution of this Agreement and remain in full force and effect and binding on the parties. This Agreement and all rights and interests granted hereunder or pursuant hereto shall be governed by and construed in accordance with the laws of the State of Utah.

Upon execution of this Agreement, the parties agree to execute and record in the office of the Duchesne County Recorder, a Memorandum of Surface Use and Right-Of-Way Agreement sufficient to provide third parties with notice of the Agreement.

Time is of the essence in the performance of this Agreement and each and every term, covenant and obligation herein.

This Agreement and its Exhibits constitute the final written expression of the Agreement between PETROGLYPH and GRANTOR, which Agreement may not be modified except by writing signed by both PETROGLYPH and GRANTOR.

GRANTOR LEE H. MOON AND KATHY MOON

By: Lee H Moon

By: Kathy Moon

GRANTEE PETROGLYPH OPERATING COMPANY, INC.

By: Ed Grotter
Its: Agent

ACKNOWLEDGMENT

STATE OF UTAH)
) ss.
COUNTY OF DUCHESNE)

The foregoing instrument was acknowledged before me this 25th day of June, 1997, by LEE H. MOON AND KATHY MOON, husband and wife.

Charlotte Jensen
Notary Public
Residing in: Duchesne, UT

My Commission Expires:
5-2-98

ACKNOWLEDGMENT

STATE OF UTAH)
) ss.
COUNTY OF DUCHESNE)

The foregoing instrument was acknowledged before me this 25th day of June, 1997, by Ed Grotter, the Agent of PETROGLYPH OPERATING COMPANY, INC.

Charlotte Jensen
Notary Public
Residing in: Duchesne, UT

My Commission Expires:
5-2-98

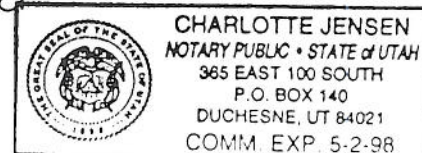
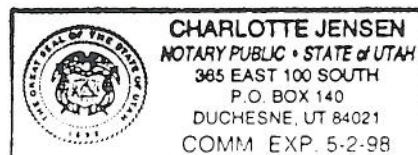


EXHIBIT A
(continued)
MAP OF DUCHESNE FIELD LANDS

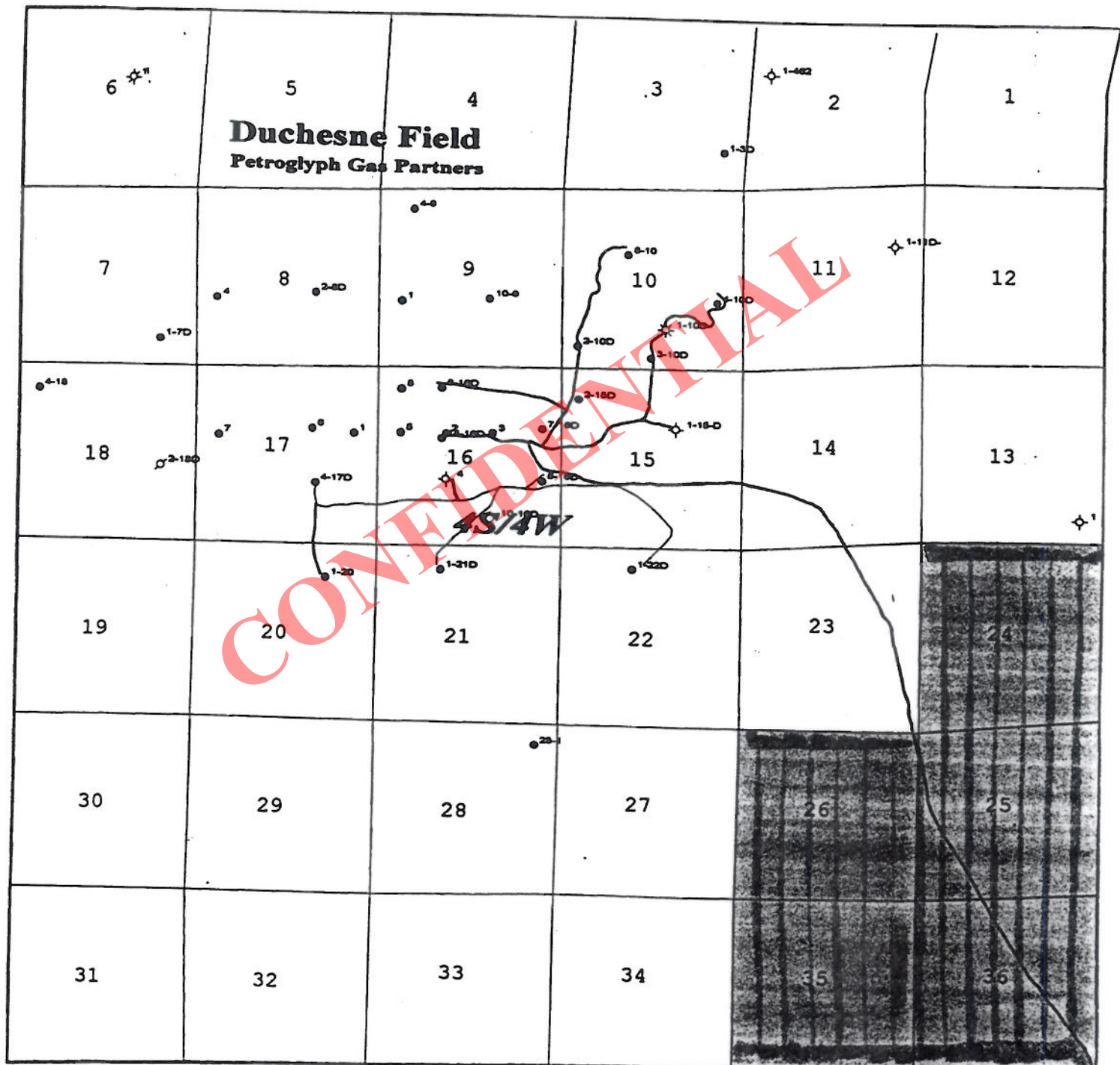


EXHIBIT A
(continued)
MAP OF ANTELOPE CREEK AREA LANDS

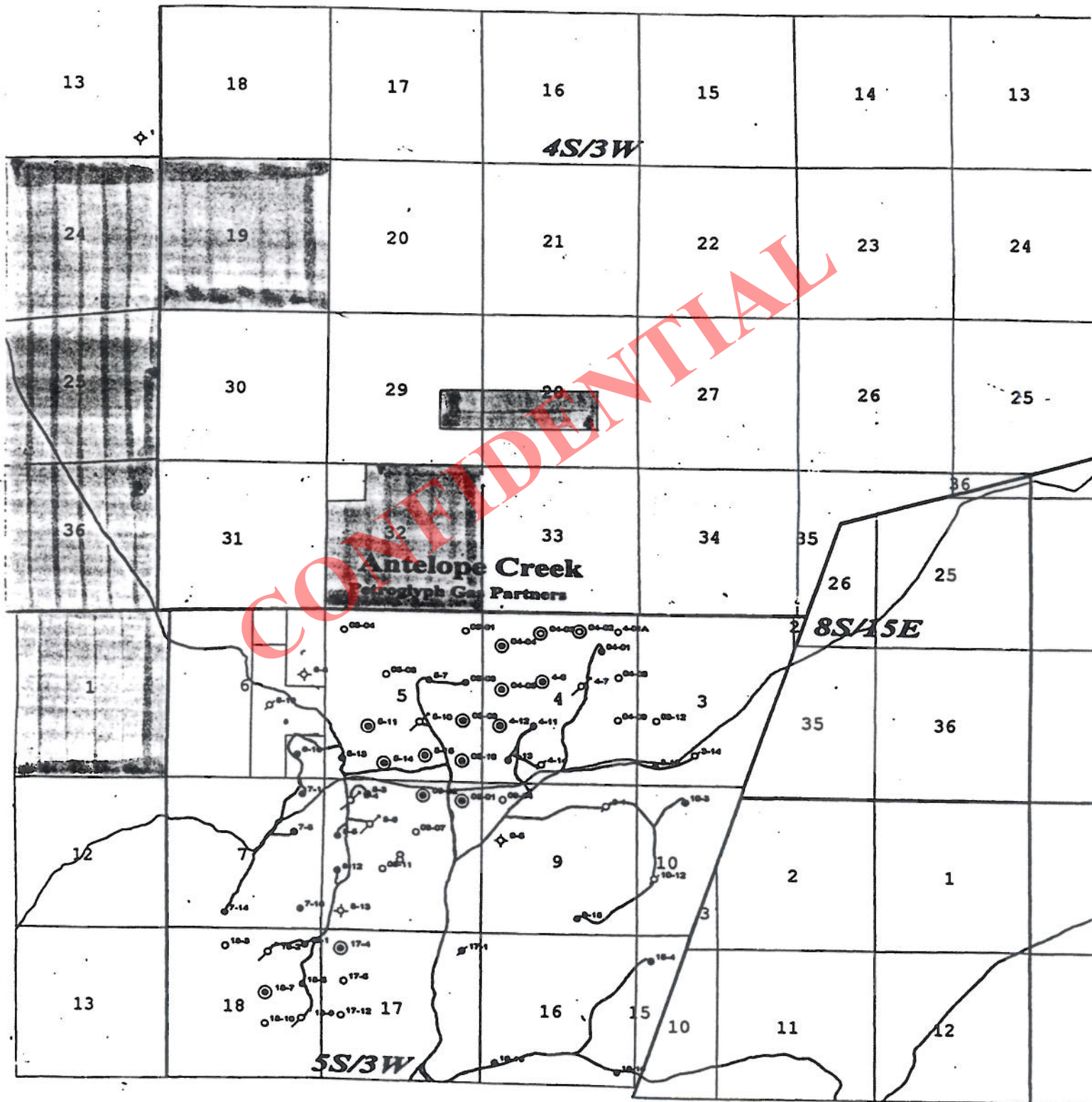


EXHIBIT B**NOTICE OF SURFACE USE AND EASEMENT FOR RIGHT OF WAY**

PETROGLYPH OPERATING COMPANY, INC., whose address is 6209 North Highway 61 P.O. Box 1839, Hutchinson, Kansas 67502 (Grantee), hereby gives notice to _____, whose address is _____, Utah 84____, (Grantor) pursuant and subject to the terms and provisions of the Surface Use and Right-Of-Way Agreement dated _____, by and between the Grantor and, of the exercise of rights granted under the Agreement, for the purposes and affecting the property and interests of Grantor as follows:

To establish a multiple use Corridor Right Of Way for the operations of the Grantee on the lands herein listed.

In, over, upon and through the following described lands in Duchesne, County, Utah:

Township	South - Range	East - USM	
Section		Use Corridor	acres m/l.
Section		Location	acres, m/l.

Said Right-of-Way and surface use to be approximately _____ ft. in length, _____ ft. in width, and containing _____ acres and more particularly described and shown on the plat attached hereto.

IN WITNESS THEREOF, PETROGLYPH OPERATING COMPANY, INC. has caused this instrument to be executed this _____ day of _____, _____.

By _____

STATE OF _____)
COUNTY OF _____) : ss.

On the _____ day of _____, _____, personally appeared before me, _____, and after being by me duly sworn did say that he/she is the _____ of PETROGLYPH OPERATING COMPANY, INC. and that said instrument was signed on behalf of said corporation by authority of its by-laws and said _____ duly acknowledged to me that said corporation executed the same.

Notary Public
Residing in _____

My Commission Expires: _____

PETROGLYPH OPERATING CO., INC.
P.O. BOX 607
ROOSEVELT, UTAH 84066

November 6, 2013

Ms. Diana Mason
State of Utah
Division of Oil, Gas & Mining
1594 West North Temple, Suite 1210
P.O. Box 145801
Salt Lake City, UT 84114-5801

Re: Directional Drilling R649-3-11

Ute Tribal 01-09-E4: 2210' FSL & 1650' FEL, NW/SE, (Surface Hole)
2230' FSL & 645' FEL, NE/SE, (Bottom Hole)
Sec. 1, T5S, R4W, U.S.B.&M.,
Duchesne County, Utah

Dear Ms. Mason,

Pursuant to the filing of Petroglyph Operating Co., Inc.'s Application for Permit to Drill regarding the above referenced well on November 6, 2013, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to the Exception to Location and Siting of Wells.

- The Ute Tribal 01-10-E4 is located within the Antelope Creek Unit Area.
- Petroglyph Operating Co., Inc. is permitting this well as a directional well in order to minimize surface disturbance. Locating the well at the surface location and drilling directionally from this location, Petroglyph Operating Co., Inc. will be able to utilize the existing road and pipelines in the area.
- Furthermore, Petroglyph Operating Co., Inc. hereby certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

Therefore, based on the above stated information, Petroglyph Operating Co., Inc. requests the permit be granted pursuant to R649-3-11.

Respectfully Submitted,

Ed Trotter,
Agent
P.O. Box 1910
Vernal, UT 84078
Phone: (435)789-4120
Fax: (435)789-1420
E-mail: edtrotter@easilink.com

Certification

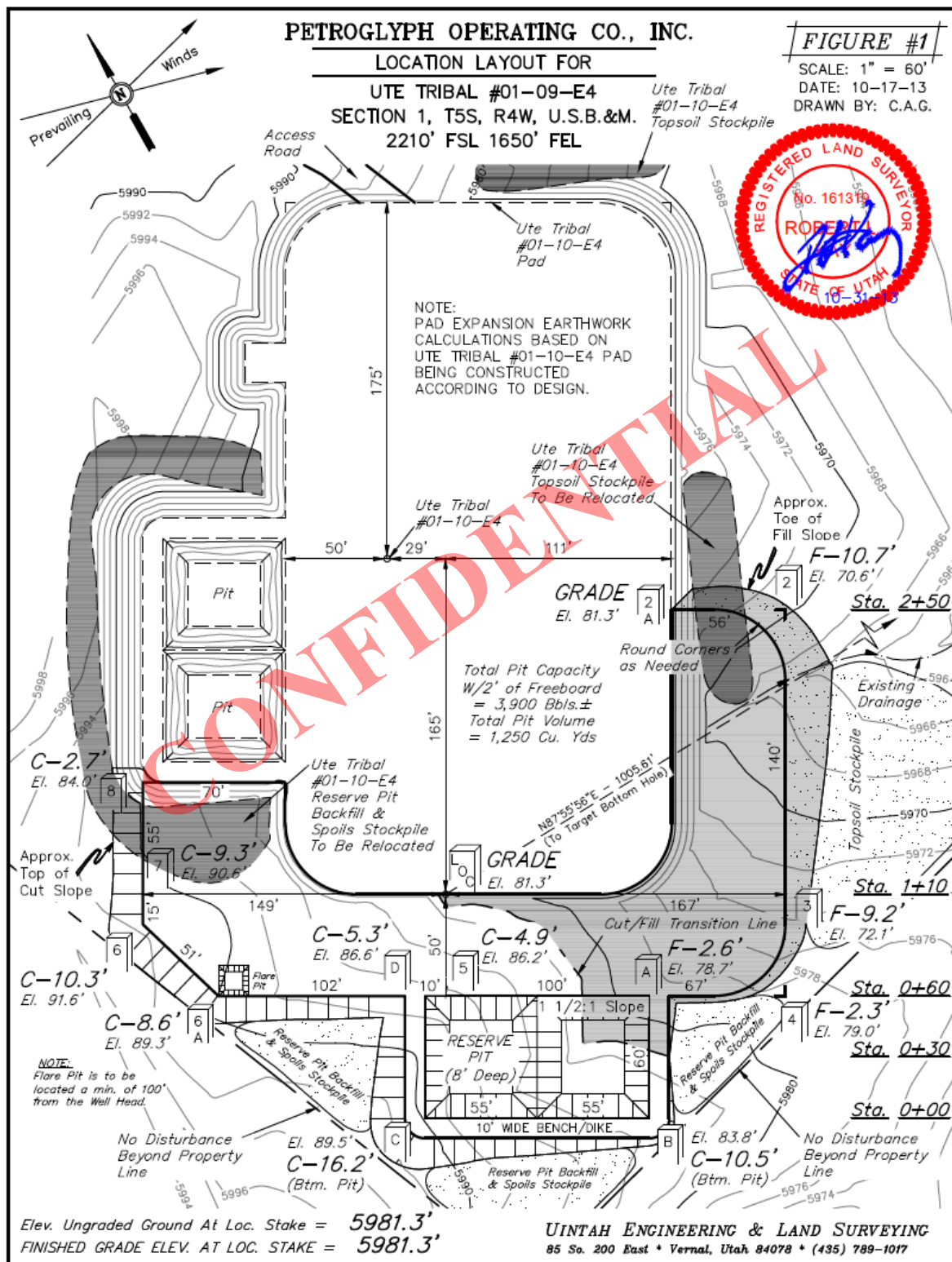
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions that presently exist; that the statements made in the Plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Petroglyph Operating Co., Inc. and its contractors and subcontractors in conformity with this Plan and the terms and conditions under which it is approved.

Please be advised that Petroglyph Operating Co., Inc. is considered to be the operator of the **UTE TRIBAL 01-09-E4 Well, located in NW/SE of Section 1, T5S, R4W, Duchesne County, Utah, lease #14-20-H62-4743**; and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond Coverage is provided under Bond #LPM4138153.

Date

Agent

CONFIDENTIAL



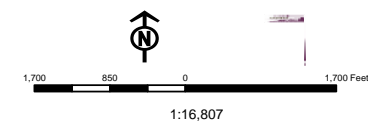
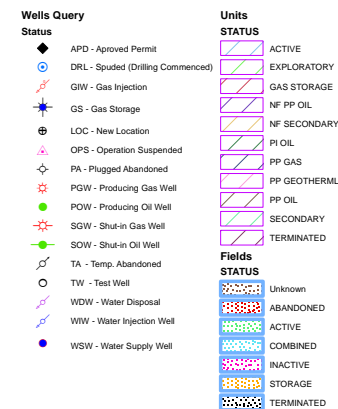
CONFIDENTIAL

API Number: 4301352658

Well Name: Ute Tribal 01-09-E4

Township: T05.0S Range: R04.0W Section: 01 Meridian: U

Operator: PETROGLYPH OPERATING CO

Map Prepared: 11/12/2013
Map Produced by Diana Mason

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator PETROGLYPH OPERATING CO
Well Name Ute Tribal 01-09-E4
API Number 43013526580000 **APD No** 9016 **Field/Unit** BRUNDAGE CANYON
Location: 1/4,1/4 NWSE **Sec** 1 **Tw** 5.0S **Rng** 4.0W 2210 FSL 1650 FEL
GPS Coord (UTM) **Surface Owner** Brian T. Bawden

Participants

Rodrigo Jurado, Les Farnsworth, John Weight, Chris Lock (Petroglyph Operating and landowner); Ed Trotter (Land Agent); David Gordon, David & Nick (BLM); Dennis Ingram (Utah Division of Oil, Gas & Mining)

Regional/Local Setting & Topography

The Ute Tribal 01-09-E4 well is proposed NW/SE and the SE/SW of Section 1, Township 5 South, Range 4 West. This pad is in northeastern Utah on the southern boundary of the Uintah Basin, approximately 7.1 miles south/southwest of the Bridgeland/U.S. Highway 40 junction, along the Antelope Canyon road one mile south of the Antelope/Sowers Canyon Junction, and proposed on the same location the Ute Tribal 01-10-E4 as a second well. Broad, bench like habitat slopes north from Anthro Mountain into the Uintah Basin, having the lowest elevation at the Duchesne River. These broad benches have numerous drainages that drain the high country northerly, with Sowers Canyon being one of the primary arteries. This well pad is positioned approximately 0.5 miles west of Sowers Canyon along its western rims, in rolling hills with sparse cedar tree habitat and short, desert-like sagebrush country, on a narrow, fingered east/west ridge that drops into the canyon below. The immediate surface area is a easterly sloping ridge top that drops easterly into Sowers Canyon.

Surface Use Plan

Current Surface Use

Wildlfe Habitat
Deer Winter Range

**New Road
Miles**

0.179

Well Pad

Width 161 **Length** 340

Src Const Material

Onsite

Surface Formation

UNTA

Ancillary Facilities N

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

Sparse vegetation, cedar tree, sagebrush, rabbit brush, bunch grass, prickly pear cactus; mule deer winter range, littered with tracks, elk potential, coyote, rabbit, fox, raptor nest in area, no details.

Soil Type and Characteristics

Tan, fine-grained sandy loam with small gravels and underlying sandstone

Erosion Issues Y

On all downslopes after disturbance

Sedimentation Issues Y**Site Stability Issues N****Drainage Diversion Required? Y**

Divert any drainages as stipulated on the Application to Drill

Berm Required? Y**Erosion Sedimentation Control Required?**

Paleo Survey Run? Y **Paleo Potential Observed? N** **Cultural Survey Run? Y** **Cultural Resources? N**

Reserve Pit**Site-Specific Factors****Site Ranking**

Distance to Groundwater (feet) >200 0

Distance to Surface Water (feet) >1000 0

Dist. Nearest Municipal Well (ft) >5280 0

Distance to Other Wells (feet) 20

Native Soil Type High permeability 20

Fluid Type Fresh Water 5

Drill Cuttings Normal Rock 0

Annual Precipitation (inches) 0

Affected Populations

Presence Nearby Utility Conduits Not Present 0

Final Score 45 1 Sensitivity Level

Characteristics / Requirements

Proposed reserve pit located on the south side of the location in cut, measuring 55' long by 60' wide by 8' deep

Closed Loop Mud Required? Liner Required? Y Liner Thickness 16 Pit Underlayment Required?

Other Observations / Comments

Dry wash along the access road will either need a culvert or a low water crossing. Petrolgyph has bought this property since the original presite was done on the UT 01-10-E4, a proposed wellbore that will share this pad. Erosion and drainage issues are addressed in the cut and fill sheets and shall be diverted as stated around this locaiton and back into exisiting wash.

Dennis Ingram
Evaluator

2/25/2014
Date / Time

Application for Permit to Drill

Statement of Basis

Utah Division of Oil, Gas and Mining

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
9016	43013526580000	LOCKED	OW	P	No
Operator	PETROGLYPH OPERATING CO		Surface Owner-APD	Brian T. Bawden	
Well Name	Ute Tribal 01-09-E4		Unit		
Field	BRUNDAGE CANYON		Type of Work	DRILL	
Location	NWSE 1 5S 4W U 2210 FSL 1650 FEL GPS Coord (UTM) 561307E 4436257N				

Geologic Statement of Basis

The mineral rights for the proposed well are owned by the Ute Tribe. The BLM will be the agency responsible for evaluating and approving the drilling, casing and cement programs.

Brad Hill
APD Evaluator

3/5/2014
Date / Time

Surface Statement of Basis

A presite visit was scheduled and done on Tuesday, February 24, 2014 to take input and address issues regarding the drilling and construction of the Ute Tribal 01-09-E4. According to Petroglyph, they have purchased this surface from the previous landowner. A previous presite was done back in 2012 to permit the Ute Tribal 01-10-E4 on the same pad. Therefore the decussion and stipulations from the previous presite will also apply to this well.

The reserve pit is staked for the 01-09- E4 off the southern portion of the well pad in cut, and the operator shall install a minimum 16 mil synthetic liner to prevent drilling fluids from seeping away into sub-surface soils. A dry wash drains the upper country in a northeasterly direction. The operator shall re-route this wash around corners number 3&2 and allow it to drain around the eastern portion of the well pad, then tie it back into the wash if possible to prevent further erosion. The topsoil spoils storage area is planned immediately east of the well pad near corner number 1 (or southeast side of location). Bill Civish with the BLM requested that the equipment and tanks be painted Culvert Green on the first presite, so that will apply as well. The operator plans to pipe the production off this site to the UT 01-07-E4 well pad. The operator shall berm the location to prevent spills from draining easterly into Sowers Canyon

Dennis Ingram
Onsite Evaluator

2/25/2014
Date / Time

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 16 mils shall be properly installed and maintained in the reserve pit.
Pits	The reserve pit should be located on the south side of the location.
Surface	The well site shall be bermed to prevent fluids from leaving the pad.
Surface	Drainages adjacent to the proposed pad shall be diverted around the location.

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 11/6/2013

API NO. ASSIGNED: 43013526580000

WELL NAME: Ute Tribal 01-09-E4

OPERATOR: PETROGLYPH OPERATING CO (N3800)

PHONE NUMBER: 435 789-4120

CONTACT: Ed Trotter

PROPOSED LOCATION: NWSE 01 050S 040W

Permit Tech Review: ☒

SURFACE: 2210 FSL 1650 FEL

Engineering Review: ☐

BOTTOM: 2230 FSL 0645 FEL

Geology Review: ☒

COUNTY: DUCHESNE

LATITUDE: 40.07435

LONGITUDE: -110.28100

UTM SURF EASTINGS: 561307.00

NORTHINGS: 4436257.00

FIELD NAME: BRUNDAGE CANYON

LEASE TYPE: 2 - Indian

LEASE NUMBER: 1420H624743

PROPOSED PRODUCING FORMATION(S): WASATCH

SURFACE OWNER: 4 - Fee

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

☒ PLAT☒ Bond: STATE/FEE - LPM4138153☐ Potash☐ Oil Shale 190-5☐ Oil Shale 190-3☐ Oil Shale 190-13☒ Water Permit: 43-8342☐ RDCC Review:☐ Fee Surface Agreement☐ Intent to Commingle

Commingle Approved

LOCATION AND SITING:

☐ R649-2-3.

Unit:

☐ R649-3-2. General☒ R649-3-3. Exception☒ Drilling Unit

Board Cause No: R649-3-11

Effective Date:

Siting:

☒ R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 1 - Exception Location - dmason
4 - Federal Approval - dmason
5 - Statement of Basis - bhll
15 - Directional - dmason
23 - Spacing - dmason

RECEIVED: March 11, 2014



GARY R. HERBERT
Governor

SPENCER J. COX
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: Ute Tribal 01-09-E4
API Well Number: 43013526580000
Lease Number: 1420H624743
Surface Owner: FEE (PRIVATE)
Approval Date: 3/11/2014

Issued to:

PETROGLYPH OPERATING CO, 960 Broadway Avenue, Ste 500, Boise, ID 83703

Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of R649-3-11. The expected producing formation or pool is the WASATCH Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

Exception Location:

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled,

completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Additional Approvals:

The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan - contact Dustin Doucet
- Significant plug back of the well - contact Dustin Doucet
- Plug and abandonment of the well - contact Dustin Doucet

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well - contact Carol Daniels
OR
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website
at <http://oilgas.ogm.utah.gov>
- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to cementing or testing casing - contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program
- contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well - contact Dan Jarvis

Contact Information:

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 - office
- Dustin Doucet 801-538-5281 - office
801-733-0983 - after office hours
- Dan Jarvis 801-538-5338 - office
801-231-8956 - after office hours

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) - due within 5 days of spudding the well
- Monthly Status Report (Form 9) - due by 5th day of the following calendar month

- Requests to Change Plans (Form 9) - due prior to implementation
- Written Notice of Emergency Changes (Form 9) - due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) - due prior to implementation
- Report of Water Encountered (Form 7) - due within 30 days after completion
- Well Completion Report (Form 8) - due within 30 days after completion or plugging

Approved By:

A handwritten signature in black ink, appearing to read "J. Rogers", written over a horizontal line.

For John Rogers
Associate Director, Oil & Gas

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

FORM APPROVED
OMB No. 1004-0136
Expires July 31, 2010

NOV 14 2013

APPLICATION FOR PERMIT TO DRILL OR REENTER

CONFIDENTIAL BLM Vernal UT

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. 1420H624743
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator PETROGLYPH OPERATING CO., INC. Contact: ED H TROTTER Email: edtrotter@easlink.com		7. If Unit or CA Agreement, Name and No. 1420H624650
3a. Address P.O. BOX 607 ROOSEVELT, UT 84066	3b. Phone No. (include area code) Ph: 435-789-4120 Fx: 435-789-1420	8. Lease Name and Well No. UTE TRIBAL 01-09-E4
4. Location of Well (Report location clearly and in accordance with any State requirements) At surface NWSE 2210FSL 1650FEL At proposed prod. zone NESE 2230FSL 645FEL		9. API Well No. 43-013-52658
14. Distance in miles and direction from nearest town or post office* 18.18 MILES SOUTHWEST OF MYTON, UTAH		10. Field and Pool, or Exploratory ANTELOPE CREEK
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 1650	16. No. of Acres in Lease 707.27	11. Sec., T., R., M., or Blk. and Survey or Area Sec 1 T5S R4W Mer UBM
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 1701	19. Proposed Depth 7138 MD 7005 TVD	12. County or Parish DUCHESE
21. Elevations (Show whether DF, KB, RT, GL, etc.) 5981 GL	22. Approximate date work will start 01/15/2014	13. State UT
23. Estimated duration 45 DAYS		17. Spacing Unit dedicated to this well

RECEIVED

APR 02 2014

DIV. OF OIL, GAS & MINING

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature (Electronic Submission)	Name (Printed/Typed) LESTER FARNSWORTH Ph: 435-722-2531	Date 11/08/2013
Title DISTRICT MANAGER		
Approved by (Signature) 	Name (Printed/Typed) Jerry Kenczka	Date MAR 28 2014
Title Assistant Field Manager Lands & Mineral Resources		
Office VERNAL FIELD OFFICE		

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

CONDITIONS OF APPROVAL ATTACHED

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Additional Operator Remarks (see next page)

Electronic Submission #226199 verified by the BLM Well Information System
For PETROGLYPH OPERATING CO., INC., sent to the Vernal
Committed to AFMSS for processing by LESLIE BUHLER on 11/14/2013 ()

NOTICE OF APPROVAL

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

UDOGM



UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: PETROGLYPH OPERATING CO
Well No: UTE TRIBAL 01-09-E4
API No: 43-013-52658

Location: SWNE SEC 01 T05S R04W
Lease No: 1420H624743
Agreement: 1420H624650

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

NOTIFICATION REQUIREMENTS

Construction Activity (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	- The Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist shall be notified at least 48 hours in advance of any construction activity. The Ute Tribal office is open Monday through Thursday.
Construction Completion (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	- Upon completion of the pertinent APD/ROW construction, notify the Ute Tribe Energy & Minerals Dept. for a Tribal Technician to verify the Affidavit of Completion. Notify the BLM Environmental Scientist prior to moving on the drilling rig.
Spud Notice (Notify BLM Petroleum Engineer)	- Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify BLM Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to running casing and cementing all casing strings to: blm_ut_vn_opreport@blm.gov .
BOP & Related Equipment Tests (Notify BLM Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify BLM Petroleum Engineer)	- Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

***SURFACE USE PROGRAM
CONDITIONS OF APPROVAL (COAs)***

- Paint all production facilities and equipment, not otherwise regulated (OSHA, etc.), Covert Green.
- All areas of disturbance (including surface pipelines) must have appropriate surface use agreements or approvals in place with the proper owner and/or agency before such action is started.
- The conditions of approval, as set forth by those owners and/or agencies, shall be adhered to.
- Stationary internal combustion engines would comply with the following emission standards: 2 g/bhp-hr of NOx for engines less than 300 HP and 1 g/bhp-hr of NOx for engines over 300 HP.
- Either no or low bleed controllers would be installed on pneumatic pumps, actuators or other pneumatic devices.
- VOC venting controls or flaring would be utilized for oil or gas atmospheric storage tanks.
- VOC venting controls or flaring would be used for glycol dehydration and amine units.
- Where feasible, green completion would be used for well completion, re-completion, venting, or planned blowdown emissions. Alternatively, use controlled VOC emissions methods with 90% efficiency.

**DOWNHOLE PROGRAM
CONDITIONS OF APPROVAL (COAs)**

SITE SPECIFIC DOWNHOLE COAs:

- Cement for the production casing will be brought to a minimum of 200 feet above the surface casing shoe.
- A CBL shall be run in the production casing to from PBTD to TOC.
- Variances to OO2, Section III.E shall be granted as requested regarding the air drilling program for the surface hole.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**

- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in CD (compact disc) format to the Vernal BLM Field Office. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location (¼¼, Sec., Twn, Rng, and P.M.).

- Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
 - All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
 - Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.
 - All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
 - Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
 - A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.

- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: 1420H624743
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: PETROGLYPH OPERATING CO		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 960 Broadway Avenue, Ste 500, Boise, ID, 83703		8. WELL NAME and NUMBER: Ute Tribal 01-09-E4
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2210 FSL 1650 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 01 Township: 05.0S Range: 04.0W Meridian: U		9. API NUMBER: 43013526580000
PHONE NUMBER: 208 685-7685 Ext		9. FIELD and POOL or WILDCAT: BRUNDAGE CANYON
COUNTY: DUCHESNE		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 4/9/2014	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. This well was spud on 4/9/14 at approximately 12:00P.M. Using a Bucket Rig (BR 2) provided by Craig's Roustabout Service, Vernal Utah; we set 60' of 16" Conductor. Please contact our staff if you have any questions.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY April 14, 2014		
NAME (PLEASE PRINT) Rodrigo Jurado	PHONE NUMBER 435 722-5302	TITLE Regulatory & Compliance Spc
SIGNATURE N/A	DATE 4/11/2014	

CONFIDENTIAL

BLM - Vernal Field Office - Notification Form

Operator Petroglyph Operating Rig Name/# Craig's /Pro Petro
Submitted By Rodrigo Jurado Phone Number 435-722-5302
Well Name/Number Ute Tribal 01-09-E4
Qtr/Qtr NWSE Section 01 Township 5S Range 4W
Lease Serial Number 14-20-H62-4743
API Number 43-013-52658

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 04/14/2014 07:00 AM ☐ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☐ Surface Casing
- ☐ Intermediate Casing
- ☐ Production Casing
- ☐ Liner
- ☐ Other

Date/Time _____ AM ☐ PM ☐

BOPE

- ☐ Initial BOPE test at surface casing point
- ☐ BOPE test at intermediate casing point
- ☐ 30 day BOPE test
- ☐ Other

Date/Time _____ AM ☐ PM ☐

Remarks We plan to run +/- 500' of 8-5/8" J-55 Surface Casing at the time indicated. (sent 4/10/2014 @ 3:30 P.M.)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: Petroglyph Operating Company Operator Account Number: N 3800
Address: P.O. Box 607
city Roosevelt
state UT zip 84066 Phone Number: (435) 722-2531

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301352658	Ute Tribal 01-09-E4		NWSE	1	5S	4W	Duchesne
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
B	99999	19443	4/9/2014			4/17/2014	
Comments: Please add well to Ute Tribal 01-07-E4.							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301351535	Ute Tribal 01-10-E4		NWSE	1	5S	4W	Duchesne
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
B	99999	19443	4/10/2014			4/17/2014	
Comments: Please add well to Ute Tribal 01-07-E4.							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301352657	Ute Tribal 01-08-E4		SWNE	1	5S	4W	Duchesne
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
B	99999	19443	4/14/2014			4/17/2014	
Comments: Please add well to Ute Tribal 01-07-E4.							

ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

Rodrigo Jurado

Name (Please Print)

Signature

Regulatory Compliance Spc.

Title

4/15/2014

Date

RECEIVED
APR 17 2014

BLM - Vernal Field Office - Notification Form

Operator Petroglyph Operating Co. Rig Name/# Capstar 334
Submitted By Geno Rowland Phone Number 970-361-3271
Well Name/Number Ute Tribal 01-09-E4
Qtr/Qtr NW/SE Section 01 Township 5S Range 4W
Lease Serial Number 14-20-H62-4743
API Number 43-013-52658

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time _____ AM ☐ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☐ Surface Casing
☐ Intermediate Casing
☒ Production Casing
☐ Liner
☐ Other

Date/Time 05/14/2014 16:00 AM ☐ PM ☒

BOPE

- ☐ Initial BOPE test at surface casing point
☐ BOPE test at intermediate casing point
☐ 30 day BOPE test
☐ Other

Date/Time _____ AM ☐ PM ☐

Remarks Intensions are to run 164 jnts. of 5-1/2" Prod. Casing to its destination shoe depth of 7120' MD.

BLM - Vernal Field Office - Notification Form

Operator Petroglyph Operating Co. Rig Name/# Capstar 334
Submitted By Geno Rowland Phone Number 970-361-3271
Well Name/Number Ute Tribal 01-09-E4
Qtr/Qtr NW/SE Section 01 Township 5S Range 4W
Lease Serial Number 14-20-H62-4743
API Number 43-013-52658

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time _____ AM ☐ PM ☐

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Date/Time 05/14/2014 16:00 AM ☐ PM ☒

BOPE

- ☐ Initial BOPE test at surface casing point
☐ BOPE test at intermediate casing point
☐ 30 day BOPE test
☐ Other

Date/Time _____ AM ☐ PM ☐

Remarks Intensions are to run 164 jnts. of 5-1/2" Prod. Casing to its destination shoe depth of 7120' MD.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9																														
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TYPE OF SUBMISSION <input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 7/3/2014 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	TYPE OF ACTION <table style="width: 100%;"> <tr> <td><input type="checkbox"/> ACIDIZE</td> <td><input type="checkbox"/> ALTER CASING</td> <td><input type="checkbox"/> CASING REPAIR</td> </tr> <tr> <td><input type="checkbox"/> CHANGE TO PREVIOUS PLANS</td> <td><input type="checkbox"/> CHANGE TUBING</td> <td><input type="checkbox"/> CHANGE WELL NAME</td> </tr> <tr> <td><input type="checkbox"/> CHANGE WELL STATUS</td> <td><input checked="" type="checkbox"/> COMMINGLE PRODUCING FORMATIONS</td> <td><input type="checkbox"/> CONVERT WELL TYPE</td> </tr> <tr> <td><input type="checkbox"/> DEEPEN</td> <td><input type="checkbox"/> FRACTURE TREAT</td> <td><input type="checkbox"/> NEW CONSTRUCTION</td> </tr> <tr> <td><input type="checkbox"/> OPERATOR CHANGE</td> <td><input type="checkbox"/> PLUG AND ABANDON</td> <td><input type="checkbox"/> PLUG BACK</td> </tr> <tr> <td><input type="checkbox"/> PRODUCTION START OR RESUME</td> <td><input type="checkbox"/> RECLAMATION OF WELL SITE</td> <td><input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION</td> </tr> <tr> <td><input type="checkbox"/> REPERFORATE CURRENT FORMATION</td> <td><input type="checkbox"/> SIDETRACK TO REPAIR WELL</td> <td><input type="checkbox"/> TEMPORARY ABANDON</td> </tr> <tr> <td><input type="checkbox"/> TUBING REPAIR</td> <td><input type="checkbox"/> VENT OR FLARE</td> <td><input type="checkbox"/> WATER DISPOSAL</td> </tr> <tr> <td><input type="checkbox"/> WATER SHUTOFF</td> <td><input type="checkbox"/> SI TA STATUS EXTENSION</td> <td><input type="checkbox"/> APD EXTENSION</td> </tr> <tr> <td><input type="checkbox"/> WILDCAT WELL DETERMINATION</td> <td><input type="checkbox"/> OTHER</td> <td>OTHER: <input style="width: 100px;" type="text"/></td> </tr> </table>		<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> CHANGE WELL STATUS	<input checked="" type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Petroglyph Operating Company, Inc. requests permission to commingle oil and gas production from the Wasatch and Green River Formations on the well referenced above. Mineral ownership is the same throughout the well bore and allocation between formation is not necessary. Petroglyph Operating has made all necessary notifications in accordance with with Utah's Oil, Gas, and Mining regulation R649-3-22. Please see the attached Affidavit of Notice and Map.																																
NAME (PLEASE PRINT) Rodrigo Jurado		PHONE NUMBER 435 722-5302																														
SIGNATURE N/A		TITLE Regulatory & Compliance Spc																														
DATE 7/14/2014																																

AFFIDAVIT OF NOTICE

State of Idaho)
) ss
County of Ada)

I, Vera Johnson, the affiant herein, being of lawful age and duly sworn upon his oath deposes and states as follows:

Vera Johnson is the Land Administrator for Petroglyph Energy, Inc., an Idaho Corporation, with headquarters located at 960 Broadway Avenue, Suite 500, Boise, ID 83706, and is duly authorized to make this Affidavit on behalf of said corporation.

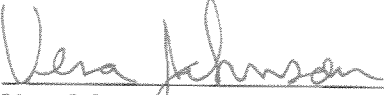
Petroglyph Energy, Inc. has submitted notices to commingle production from the Wasatch and Green River formations in the following well lying within the boundaries of the Antelope Creek Plan of Cooperative Development – BIA Lease UTE 14-20-H62-4743:

UTE TRIBAL 01-09-E4

This Affidavit is made in accordance with Utah’s Oil, Gas and Mining regulation R649-3-22. As operator, Petroglyph Energy, Inc. does not have knowledge of any other contiguous oil and gas leases or drilling units overlying the pool and has provided notice to the Ute Indian Tribe, to the parties listed below:

Bruce Ignacio, Councilman
Uintah & Ouray Business Committee
Ute Indian Tribe
P.O. Box 190
Fort Duchesne, UT 84026

Manual Myore, Director of Energy
Minerals and Air Programs
Ute Indian Tribe
P.O. Box 190
Fort Duchesne, UT 84026

Petroglyph Energy, Inc.

Vera Johnson

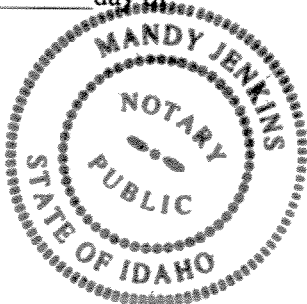
State of Idaho)
) ss
County of Ada)

The above and foregoing Affidavit was subscribed and sworn to before me on the 11th day of July, 2014, by Vera Johnson.

Witness my hand and official seal.

(SEAL)


Notary Public



PETROGLYPH

EXECUTIVE OFFICES



July 14, 2014

Bruce Ignacio, Councilman
Ute Indian Tribe
Uintah & Ouray Business Committee
P.O. Box 190
Fort Duchesne, UT 84026

Manual Myore, Director of Energy
Minerals and Air Programs
Ute Indian Tribe
P.O. Box 190
Fort Duchesne, UT 84026

Re: Notice to Commingle Production
UTE TRIBAL 01-09-E4

Gentlemen:

Petroglyph Energy, Inc. is submitting an Application to Commingle from the Wasatch and Green River formations in the above referenced well. In accordance with Utah Administration Rule R649-3-22 relative to completion into two or more pools, Petroglyph is hereby providing written notice to the Ute Tribe of the submission. Please see enclosed copies of the Application to Commingle for the above referenced well.

Please contact our Land Manager, Nicole Colby, at 208-685-7670 if you have any questions.

Sincerely,

A handwritten signature in cursive script, reading "Vera Johnson".

Vera Johnson
Land Administrator
Enclosure

PETROGLYPH ENERGY, INC.

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☒

APPLICATION FOR PERMIT TO DRILL						1. WELL NAME and NUMBER Ute Tribal 01-09-E4					
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT BRUNDAGE CANYON					
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME					
6. NAME OF OPERATOR PETROGLYPH OPERATING CO						7. OPERATOR PHONE 208 685-7685					
8. ADDRESS OF OPERATOR 960 Broadway Avenue, Ste 500, Boise, ID, 83703						9. OPERATOR E-MAIL ppowell@pgei.com					
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) 1420H624743				11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>		12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>					
13. NAME OF SURFACE OWNER (if box 12 = 'fee') Brian T. Bawden						14. SURFACE OWNER PHONE (if box 12 = 'fee') 8019642678					
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee') 3770 S 3760 W,						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')					
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')				18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>		19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>					

20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	2210 FSL 1650 FEL	NWSE	1	5.0 S	4.0 W	U
Top of Uppermost Producing Zone	2230 FSL 645 FEL	NESE	1	5.0 S	4.0 W	U
At Total Depth	2230 FSL 645 FEL	NESE	1	5.0 S	4.0 W	U

21. COUNTY DUCHESNE		22. DISTANCE TO NEAREST LEASE LINE (Feet) 1650		23. NUMBER OF ACRES IN DRILLING UNIT 707	
		25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 1701		26. PROPOSED DEPTH MD: 7138 TVD: 7005	
27. ELEVATION - GROUND LEVEL 5981		28. BOND NUMBER LPM4138153		29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 43-8342	

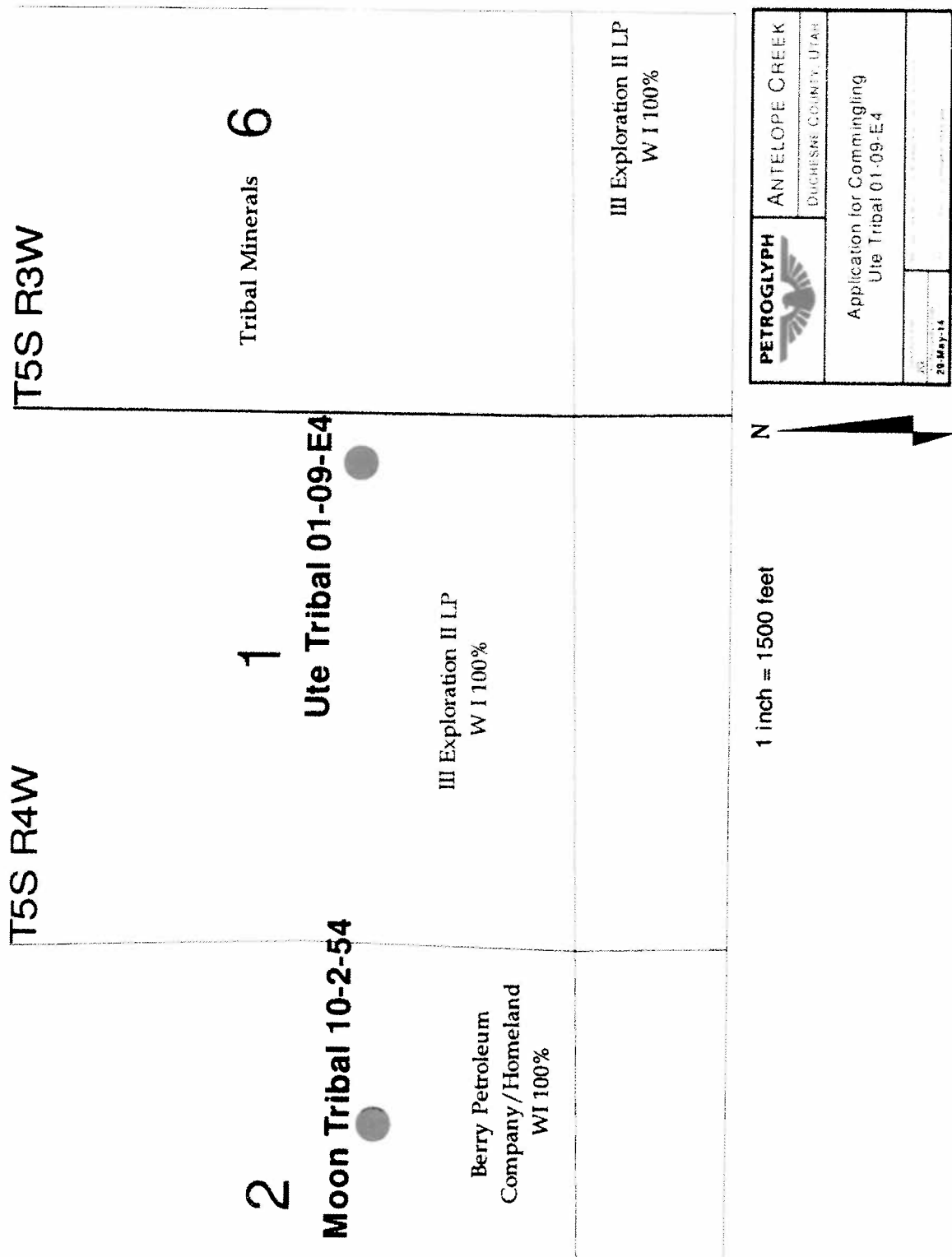
Hole, Casing, and Cement Information										
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
Cond	20	14	0 - 53	5.0	Unknown	10.0	Class G	25	1.17	15.8
Surf	12.25	8.625	0 - 493	24.0	J-55 ST&C	10.0	Class G	226	1.17	15.8
Prod	7.875	5.5	0 - 7138	15.5	J-55 LT&C	10.0	Class G	475	1.92	12.5
							Class G	477	1.46	13.4

ATTACHMENTS

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES

<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN
<input checked="" type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)	<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER
<input type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)	<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP

NAME Ed Trotter	TITLE Agent	PHONE 435 789-4120
SIGNATURE	DATE 11/06/2013	EMAIL edtrotter@easilink.com
API NUMBER ASSIGNED 43013526580000	APPROVAL Permit Manager	



STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9			
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: 1420H624743			
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:			
2. NAME OF OPERATOR: PETROGLYPH OPERATING CO		7. UNIT or CA AGREEMENT NAME:			
3. ADDRESS OF OPERATOR: 960 Broadway Avenue, Ste 500, Boise, ID, 83703		8. WELL NAME and NUMBER: Ute Tribal 01-09-E4			
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2210 FSL 1650 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 01 Township: 05.0S Range: 04.0W Meridian: U		9. API NUMBER: 43013526580000			
9. FIELD and POOL or WILDCAT: BRUNDAGE CANYON		COUNTY: DUCHESNE			
STATE: UTAH					
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA					
TYPE OF SUBMISSION	TYPE OF ACTION				
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 6/17/2014 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input checked="" type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/> </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input checked="" type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input checked="" type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>			
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Please see attached. <div style="text-align: right; margin-top: 20px;"> Accepted by the Utah Division of Oil, Gas and Mining Date: July 31, 2014 By: <u><i>Dark Quist</i></u> </div>					
NAME (PLEASE PRINT) Rodrigo Jurado	PHONE NUMBER 435 722-5302	TITLE Regulatory & Compliance Spc			
SIGNATURE N/A		DATE 6/16/2014			

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1 TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5 LEASE DESIGNATION AND SERIAL NUMBER 1420H624743
2 NAME OF OPERATOR Petroglyph Operating Company Inc.		6 IF INDIAN, ALLOTTEE OR TRIBE NAME Ute Indian Tribe
3 ADDRESS OF OPERATOR P.O. Box 607 Roosevelt UT 84066		7 UNIT or CA AGREEMENT NAME 1420H624650
4 LOCATION OF WELL FOOTAGES AT SURFACE 2210' FSL, 1650' FEL QTR/QTR SECTION TOWNSHIP RANGE MERIDIAN NWNE 1 5S 4W U		8 WELL NAME and NUMBER Ute Tribal 01-09-E4
PHONE NUMBER (435) 722-2531		9 API NUMBER 4301352658
		10 FIELD AND POOL OR WILDCAT Antelope Creek
		COUNTY Duchesne
		STATE UTAH

11 CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start 6/17/2014	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> ALTER CASING	<input checked="" type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON	
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE	
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER _____	
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION		

12 DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

On or around 6/17/2014, depending on equipment availability, Petroglyph Operating intends to perforate and fracture treat the following: 3827-30, 3832-42, 3844-48, 3961-67, 4075-78, 4085-88, 4567-69, 4640-46, 4710-14, 4735-38, 4882-84, 4887-94, 5186-90, 5195-97, 5373-75, 5392-95, 5427-30, 5440-44, 5526-29, 5538-41, 5574-76, 5586-89, 5614-16, 5631-39, 5645-51, 5656-64, 5684-88, 5700-02, 5939-42, 6013-16, 6041-43, 6090-92, 6101-03, 6108-11, 6126-29, 6133-34, 6147-50, 6193-95, 6206-10, 6280-85 & 6700-12. We will perforate at 4 shot per foot and isolate zones using Halliburton 8K Composite Plugs. We plan complete the following stages:

6700-6712: 53,571 Gals of fluid containing 30,000#'s of sand,
5939-6285: 124,999 Gals of fluid containing 70,000#'s of sand,
5526-5702: 124,999 Gals of fluid containing 70,000#'s of sand,
5186-5444: 80,357 Gals of fluid containing 45,000#'s of sand,
4882-4894: 44,643 Gals of fluid containing 25,000#'s of sand,
4567-4738: 62,500 Gals of fluid containing 35,000#'s of sand,
3827-4088: 124,999 Gals of fluid containing 70,000#'s of sand.

This plan is tentative and will be adjusted as needed during completion operations. Volumes and amounts of sand are only estimates, actual figures will be reported at a later date. All plugs will be drilled out and the well swabbed if necessary.

NAME (PLEASE PRINT) Rodrigo Jurado

TITLE Regulatory Compliance Specialist

SIGNATURE

DATE 6/12/2014

(This space for State use only)

AFFIDAVIT OF NOTICE

State of Idaho)
) ss
County of Ada)

I, Vera Johnson, the affiant herein, being of lawful age and duly sworn upon his oath deposes and states as follows:

Vera Johnson is the Land Administrator for Petroglyph Energy, Inc., an Idaho Corporation, with headquarters located at 960 Broadway Avenue, Suite 500, Boise, ID 83706, and is duly authorized to make this Affidavit on behalf of said corporation.

Petroglyph Energy, Inc. has submitted notices to commingle production from the Wasatch and Green River formations in the following well lying within the boundaries of the Antelope Creek Plan of Cooperative Development – BIA Lease UTE 14-20-H62-4743:

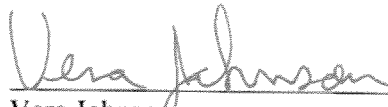
UTE TRIBAL 01-09-E4

This Affidavit is made in accordance with Utah's Oil, Gas and Mining regulation R649-3-22. As operator, Petroglyph Energy, Inc. does not have knowledge of any other contiguous oil and gas leases or drilling units overlying the pool and has provided notice to the Ute Indian Tribe, to the parties listed below:

Bruce Ignacio, Councilman
Uintah & Ouray Business Committee
Ute Indian Tribe
P.O. Box 190
Fort Duchesne, UT 84026

Manual Myore, Director of Energy
Minerals and Air Programs
Ute Indian Tribe
P.O. Box 190
Fort Duchesne, UT 84026

Petroglyph Energy, Inc.


Vera Johnson

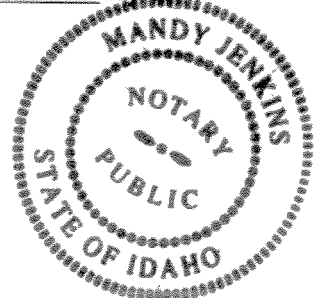
State of Idaho)
) ss
County of Ada)

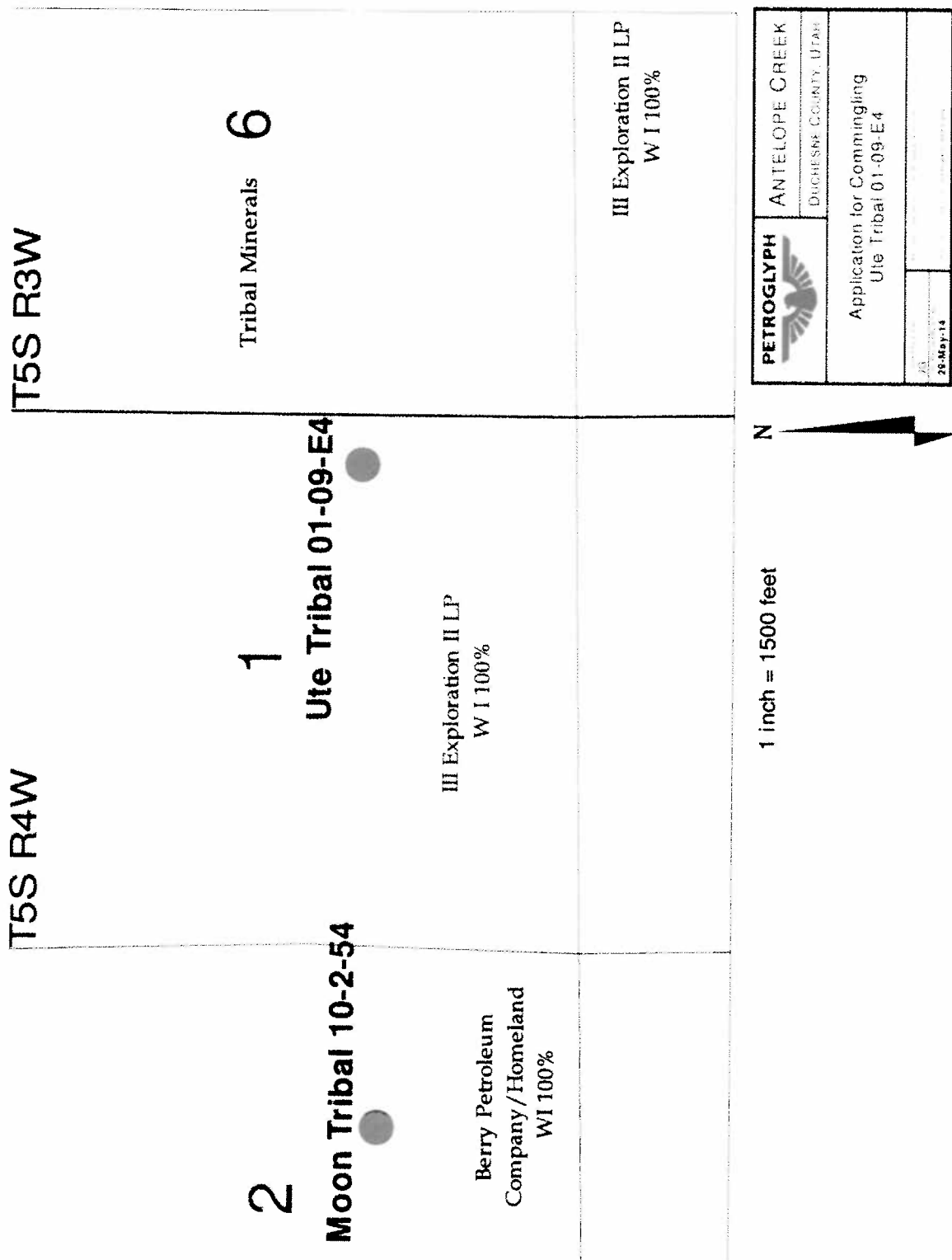
The above and foregoing Affidavit was subscribed and sworn to before me on the 11th day of July, 2014, by Vera Johnson.

Witness my hand and official seal.

(SEAL)


Notary Public





STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: 1420H624743
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: PETROGLYPH OPERATING CO		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 960 Broadway Avenue, Ste 500, Boise, ID, 83703		8. WELL NAME and NUMBER: Ute Tribal 01-09-E4
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2210 FSL 1650 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 01 Township: 05.0S Range: 04.0W Meridian: U		9. API NUMBER: 43013526580000
PHONE NUMBER: 208 685-7685 Ext		9. FIELD and POOL or WILDCAT: BRUNDAGE CANYON
COUNTY: DUCHESNE		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 7/3/2014	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. The date of first production for this well was 07/03/2014.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY August 04, 2014		
NAME (PLEASE PRINT) Rodrigo Jurado	PHONE NUMBER 435 722-5302	TITLE Regulatory & Compliance Spc
SIGNATURE N/A	DATE 7/11/2014	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: 1420H624743
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2. NAME OF OPERATOR: PETROGLYPH OPERATING CO		7. UNIT or CA AGREEMENT NAME:
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4. LOCATION OF WELL FOOTAGES AT SURFACE: 2210 FSL 1650 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 01 Township: 05.0S Range: 04.0W Meridian: U		9. API NUMBER: 43013526580000
PHONE NUMBER: 208 685-7685 Ext		9. FIELD and POOL or WILDCAT: BRUNDAGE CANYON
COUNTY: DUCHESNE		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 10/1/2014	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
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	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. <div style="text-align: center; padding: 20px;"> Please see attached. </div> <div style="text-align: right; padding: 20px;"> Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY October 09, 2014 </div>		
NAME (PLEASE PRINT) Rodrigo Jurado	PHONE NUMBER 435 722-5302	TITLE Regulatory & Compliance Spc
SIGNATURE N/A	DATE 10/1/2014	

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-4743
2. NAME OF OPERATOR: Petroglyph Operating Company Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Indian Tribe
3. ADDRESS OF OPERATOR: P.O. Box 607 CITY Roosevelt STATE UT ZIP 84066		7. UNIT or CA AGREEMENT NAME: 14-20-H62-4650
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2210' FSL, 1650' FEL		8. WELL NAME and NUMBER: Ute Tribal 01-09-E4
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWSE 1 5S 4W U		9. API NUMBER: 4301352658
COUNTY: Duchesne		10. FIELD AND POOL, OR WILDCAT: Antelope Creek
STATE: UTAH		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input checked="" type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

On 6/4/2014 Petroglyph Operating ran GR/CBL and found ETOC @ Surface. On 6/16/2014 we then perforated the following: 6700-12, 6280-85, 6206-10, 6193-95, 6147-50, 6133-34, 6126-29, 6108-11, 6101-03, 6090-92, 6041-43, 6013-16, 5939-42, 5700-02, 5684-88, 5656-64, 5645-51, 5631-39, 5614-16, 5586-89, 5574-76, 5538-41, 5526-29, 5440-44, 5427-30, 5392-95, 5373-75, 5195-97, 5186-90, 4887-94, 4882-84, 4735-38, 4710-14, 4640-46, 4567-69, 4085-88, 4075-78, 3961-67, 3844-48, 3832-42 & 3827-30. We isolated and fracture treated the following intervals:

6,700'-6,712': 494 Bbls of fluid containing 30,000#'s of sand,
5,939'-6,285': 782 Bbls of fluid containing 70,020#'s of sand,
5,526'-5,702': 837 Bbls of fluid containing 70,120#'s of sand,
5,186'-5,444': 613 Bbls of fluid containing 45,200#'s of sand,
4,882'-4,894': 462 Bbls of fluid containing 25,000#'s of sand,
4,567'-4,738': 524 Bbls of fluid containing 35,100#'s of sand,
3,827'-4,088': 768 Bbls of fluid containing 70,020#'s of sand.

Isolation plugs used were Halliburton 8K Composite Plugs, fluid used was Dyna LP 22 18# gelled fluid, sand used was 20/40 Mesh Premium White Sand and guns used were Titan 3-1/8", containing 22.7 gram charges, 0.42" EHD, 23.54" TTP @ 4 SPF @ 120* Phased. All plugs were drilled out and cleaned out to PBTD, 6,806'. The well was swabbed until a good oil cut was see, then ran a pump on 7/1/2014 and put to pump.

NAME (PLEASE PRINT) <u>Rodrigo Jurado</u>	TITLE <u>Regulatory Compliance Specialist</u>
SIGNATURE 	DATE <u>10/1/2014</u>

(This space for State use only)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MININGAMENDED REPORT ☐ FORM 8
(highlight changes)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-4743
b. TYPE OF WORK: NEW WELL <input checked="" type="checkbox"/> HORIZ. LATS. <input type="checkbox"/> DEEP-EN <input type="checkbox"/> RE-ENTRY <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Indian Tribe
2. NAME OF OPERATOR: Petroglyph Operating Company, Inc.		7. UNIT or CA AGREEMENT NAME: 14-20-H62-4650
3. ADDRESS OF OPERATOR: P.O. Box 607 CITY Roosevelt STATE UT ZIP 84066		8. WELL NAME and NUMBER: Ute Tribal 01-09-E4
PHONE NUMBER: (435) 722-2531		9. API NUMBER: 4301352658
4. LOCATION OF WELL (FOOTAGES): AT SURFACE: 2210' FSL, 1650' FEL AT TOP PRODUCING INTERVAL REPORTED BELOW: 2219' FSL, 929' FEL NESE Sec. 1 T5S R4W AT TOTAL DEPTH: 2215' FSL, 628' FEL NESE Sec. 1 T5S R4W		10. FIELD AND POOL, OR WILDCAT: Antelope Creek
14. DATE SPUDDED: 4/10/2014		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWSE 1 5S 4W U
15. DATE T.D. REACHED: 5/13/2014		12. COUNTY: Duchesne
16. DATE COMPLETED: 6/30/2014		13. STATE: UTAH
ABANDONED <input type="checkbox"/> READY TO PRODUCE <input checked="" type="checkbox"/>		17. ELEVATIONS (DF, RKB, RT, GL): 5,994' RKB
18. TOTAL DEPTH: MD 7,129 TVD 7,011	19. PLUG BACK T.D.: MD 6,806 TVD 6,688	20. IF MULTIPLE COMPLETIONS, HOW MANY? *
21. DEPTH BRIDGE MD PLUG SET: TVD		

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) ACTR, SDDSN, Cement Bond Log, Borehole Volume Plot	23. WAS WELL CORED? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit analysis) WAS DST RUN? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit report) DIRECTIONAL SURVEY? NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> (Submit copy)
---	---

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
26	16 J-55	75	0	73				0	Conductor
12.25	8.625 J-55	24	0	513		G 350	72	0	
7.875	5.5 J-55	15.5	0	7,120		G 940	294	0	CBL

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2.875	6,725							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) Wasatch	6,700	6,712	6,582	6,594	6,700 6,712	0.42	48	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(B) Green River	3,827	6,285	3,723	6,167	3,827 6,285	0.42	580	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

27. PERFORATION RECORD

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
6,700'-6,712'	494 Bbls of Dyna LP 22 18# Gelled Fluid Containing 30,000#'s of 20/40 Mesh Sand.
3,827'-6,285'	3,986 Bbls of Dyna LP 22 18# Gelled Fluid Containing 315,460 of 20/40 Mesh Sand.

29. ENCLOSED ATTACHMENTS:

- | | | | |
|---|--|--|--|
| <input checked="" type="checkbox"/> ELECTRICAL/MECHANICAL LOGS | <input type="checkbox"/> GEOLOGIC REPORT | <input type="checkbox"/> DST REPORT | <input checked="" type="checkbox"/> DIRECTIONAL SURVEY |
| <input type="checkbox"/> SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION | <input type="checkbox"/> CORE ANALYSIS | <input checked="" type="checkbox"/> OTHER: DOGM Form 7 | |

30. WELL STATUS:

POW

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 7/3/2014	TEST DATE: 7/14/2014	HOURS TESTED: 24	TEST PRODUCTION RATES: →	OIL – BBL: 49	GAS – MCF: 50	WATER – BBL: 112	PROD. METHOD: Rod Pump
CHOKE SIZE: 32/64	TBG. PRESS. 160	CSG. PRESS. 150	API GRAVITY 43.00	BTU – GAS 1	GAS/OIL RATIO 1,020	24 HR PRODUCTION RATES: →	INTERVAL STATUS: Open

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

Used for Fuel

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				Trona	2,675
				Mahogany	3,028
				Garden Gulch	3,600
				B Marker	4,024
				X Marker	4,532
				Y Marker	4,680
				Douglas Creek	5,084
				Castle Peak	5,626
				Basal Carbonate	6,037
				Wasatch	6,312

35. ADDITIONAL REMARKS (Include plugging procedure)

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) Rodrigo JuradoTITLE Regulatory Compliance SpecialistSIGNATURE DATE 10/27/2014

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940



Job Number: UT141420
 Company: Petroglyph
 Lease/Well: Ute Tribal 01-09-E4
 Location: Section 1, T5S, R4W
 Rig Name: Capstar 334
 RKB: 5994
 G.L. or M.S.L.: 5981

State/Country: UT/ USA
 Declination: 11.03
 Grid: True
 File name: C:\WINSERVE\UT141420.SVY
 Date/Time: 13-May-14 / 21:52
 Curve Name: Actual Ute Tribal 01-09-E4

Payzone Directional Services LLC

WINSERVE SURVEY CALCULATIONS Minimum Curvature Method Vertical Section Plane 90.00 Vertical Section Referenced to Wellhead Rectangular Coordinates Referenced to Wellhead

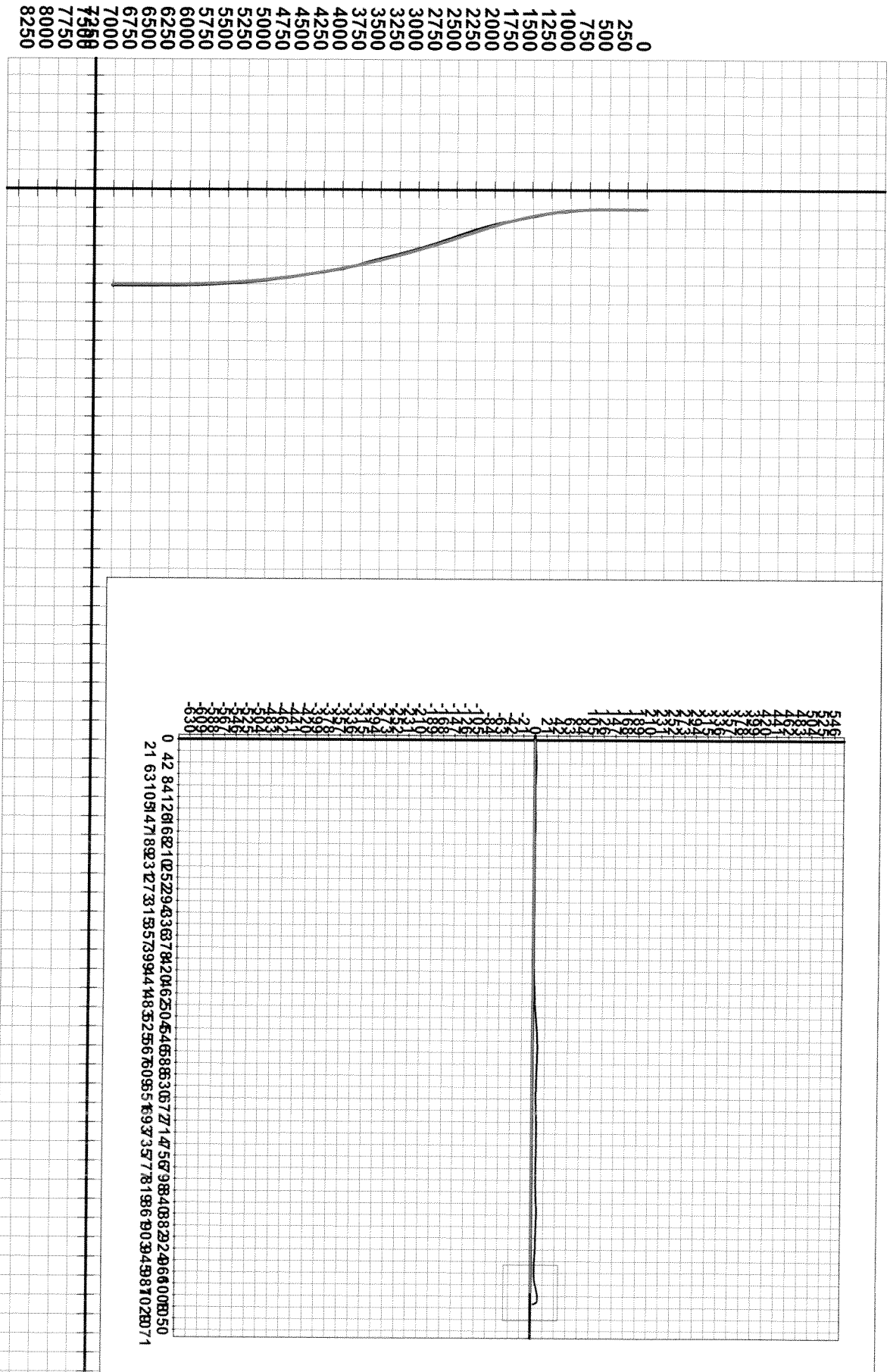
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	Distance FT	CLOSURE Direction Deg	Dogleg Severity Deg/100
533.00	.40	208.60	533.00	-1.63	-.89	-.89	1.86	208.60	.08
626.00	.60	96.30	625.99	-1.97	-.56	-.56	2.05	195.91	.90
718.00	2.40	73.50	717.96	-1.48	1.76	1.76	2.30	129.95	2.02
810.00	3.40	73.40	809.84	-.15	6.23	6.23	6.23	91.39	1.09
902.00	4.90	84.90	901.60	.98	12.75	12.75	12.79	85.62	1.86
993.00	5.00	84.60	992.26	1.70	20.57	20.57	20.64	85.29	.11
1084.00	5.50	88.70	1082.88	2.17	28.88	28.88	28.96	85.71	.69
1176.00	6.70	88.20	1174.35	2.44	38.65	38.65	38.73	86.39	1.31
1267.00	9.00	92.00	1264.50	2.36	51.07	51.07	51.13	87.36	2.59
1358.00	10.40	93.30	1354.19	1.63	66.39	66.39	66.41	88.59	1.56
1450.00	11.20	91.80	1444.56	.88	83.61	83.61	83.61	89.40	.92
1541.00	11.40	89.70	1533.80	.64	101.44	101.44	101.44	89.64	.50

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S			E-W			Vertical Section FT	CLOSURE			Dogleg Severity Deg/100
				FT	FT		FT	FT			Distance FT	Direction Deg		
1632.00	12.22	87.76	1622.87	1.07			120.05			120.05	120.06	89.49		1.00
1723.00	12.26	89.56	1711.80	1.52			139.34			139.34	139.35	89.38		.42
1815.00	12.30	90.70	1801.70	1.47			158.90			158.90	158.91	89.47		.27
1906.00	12.79	92.42	1890.53	.93			178.66			178.66	178.66	89.70		.68
1997.00	14.55	92.59	1978.95	-.01			200.15			200.15	200.15	90.00		1.93
2089.00	15.64	90.40	2067.77	-.62			224.09			224.09	224.09	90.16		1.34
	15.40	89.30	2155.45	-.56			248.44			248.44	248.44	90.13		.42
	17.27	90.92	2242.78	-.63			274.03			274.03	274.03	90.13		2.11
	18.06	91.14	2330.44	-1.13			301.94			301.94	301.94	90.21		.86
2454.00	18.90	89.00	2416.74	-1.15			330.78			330.78	330.78	90.20		1.19
2545.00	19.78	88.57	2502.61	-.51			360.91			360.91	360.91	90.08		.98
	19.42	88.20	2588.34	.35			391.43			391.43	391.43	89.95		.42
	19.91	88.64	2674.97	1.20			422.37			422.37	422.38	89.84		.56
	17.60	86.60	2761.13	2.38			451.60			451.60	451.61	89.70		2.64
2910.00	17.90	87.10	2847.80	3.91			479.30			479.30	479.32	89.53		.37
3002.00	16.60	84.50	2935.66	5.88			506.51			506.51	506.54	89.33		1.64
	16.40	85.60	3022.91	8.11			532.25			532.25	532.31	89.13		.41
	15.90	89.10	3110.33	9.29			557.53			557.53	557.60	89.04		1.20
	15.10	93.30	3198.02	8.81			581.82			581.82	581.89	89.13		1.51
3367.00	13.70	91.30	3287.13	7.87			604.68			604.68	604.73	89.25		1.61
3458.00	14.30	91.70	3375.42	7.29			626.69			626.69	626.73	89.33		.67
	14.50	90.40	3463.56	6.88			649.31			649.31	649.35	89.39		.42
	15.00	87.20	3552.53	7.38			672.72			672.72	672.76	89.37		1.04
	15.70	88.40	3640.29	8.30			696.79			696.79	696.84	89.32		.84
3823.00	15.50	90.50	3727.93	8.54			721.26			721.26	721.31	89.32		.66
3915.00	14.72	90.97	3816.75	8.23			745.24			745.24	745.28	89.37		.86
	13.58	90.83	3904.99	7.88			767.48			767.48	767.52	89.41		1.25
	12.04	89.78	3993.72	7.76			787.66			787.66	787.69	89.44		1.71
	10.46	89.21	4083.95	7.92			805.60			805.60	805.64	89.44		1.72
4280.00	8.83	89.12	4173.66	8.14			820.85			820.85	820.89	89.43		1.79
4371.00	9.12	86.90	4263.55	8.63			835.03			835.03	835.08	89.41		.50
	8.44	87.00	4354.47	9.38			849.06			849.06	849.11	89.37		.74
	8.92	92.24	4444.43	9.46			862.77			862.77	862.83	89.37		1.02
	8.79	90.04	4534.35	9.18			876.78			876.78	876.82	89.40		.40

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
4737.00	9.50	91.90	4625.18	8.92	891.39	891.39	891.44	89.43	.84
4828.00	8.00	91.40	4715.11	8.51	905.23	905.23	905.27	89.46	1.65
4919.00	7.30	91.40	4805.30	8.22	917.34	917.34	917.38	89.49	.77
5010.00	7.80	93.10	4895.51	7.74	929.29	929.29	929.32	89.52	.60
5102.00	6.30	94.30	4986.82	7.03	940.56	940.56	940.58	89.57	1.64
5193.00	6.40	90.30	5077.26	6.63	950.61	950.61	950.63	89.60	.50
5284.00	6.20	90.10	5167.71	6.59	960.59	960.59	960.61	89.61	.22
5376.00	5.00	92.50	5259.27	6.41	969.57	969.57	969.59	89.62	1.33
5467.00	4.60	80.80	5349.95	6.82	977.13	977.13	977.15	89.60	1.16
5558.00	3.20	80.80	5440.74	7.81	983.24	983.24	983.27	89.55	1.54
5649.00	3.50	74.00	5531.58	8.98	988.42	988.42	988.46	89.48	.55
5741.00	4.44	75.98	5623.36	10.62	994.57	994.57	994.63	89.39	1.03
5832.00	3.60	81.61	5714.14	11.89	1000.82	1000.82	1000.89	89.32	1.02
5924.00	2.72	84.33	5806.00	12.52	1005.85	1005.85	1005.92	89.29	.97
6015.00	2.37	90.35	5896.91	12.73	1009.88	1009.88	1009.96	89.28	.48
6106.00	1.63	93.25	5987.85	12.64	1013.05	1013.05	1013.13	89.29	.82
6198.00	1.10	88.46	6079.82	12.59	1015.24	1015.24	1015.32	89.29	.59
6289.00	.62	101.73	6170.81	12.51	1016.59	1016.59	1016.67	89.29	.57
6380.00	.70	106.00	6261.81	12.26	1017.61	1017.61	1017.68	89.31	.10
6472.00	.66	128.14	6353.80	11.78	1018.57	1018.57	1018.63	89.34	.29
6563.00	.57	126.08	6444.80	11.19	1019.34	1019.34	1019.41	89.37	.10
6654.00	.57	148.40	6535.79	10.54	1019.95	1019.95	1020.00	89.41	.24
6746.00	.66	158.38	6627.79	9.65	1020.38	1020.38	1020.43	89.46	.15
6837.00	.70	153.20	6718.78	8.67	1020.83	1020.83	1020.86	89.51	.08
6928.00	.90	155.50	6809.77	7.52	1021.37	1021.37	1021.40	89.58	.22
7020.00	.70	166.20	6901.76	6.32	1021.81	1021.81	1021.83	89.65	.27
Final Survey									
7065.00	.97	170.10	6946.76	5.68	1021.94	1021.94	1021.95	89.68	.61
Projected to bit									
7129.00	.97	170.10	7010.75	4.61	1022.12	1022.12	1022.14	89.74	.00

Job Number: UT141420
Company: Petroglyph
Lease/Well: Ute Tribal 01-09-E4
Location: Section 1, T5S, R4W
Rig Name: Capstar 334
State/Country: UT/ USA

Declination: 11.03



-1500 000500 0 5001000 500 2000 2500 3000 3500 4000 4500 5000 5500 6000 6500 7000 7500 8000 8250

0 42 84 128 162 195 229 263 297 331 365 399 433 467 501 535 569 603 637 671 705 739 773 807 841 875 909 943 977 1011 1045 1079 1113 1147 1181 1215 1249 1283 1317 1351 1385 1419 1453 1487 1521 1555 1589 1623 1657 1691 1725 1759 1793 1827 1861 1895 1929 1963 1997 2031 2065 2099 2133 2167 2201 2235 2269 2303 2337 2371 2405 2439 2473 2507 2541 2575 2609 2643 2677 2711 2745 2779 2813 2847 2881 2915 2949 2983 3017 3051 3085 3119 3153 3187 3221 3255 3289 3323 3357 3391 3425 3459 3493 3527 3561 3595 3629 3663 3697 3731 3765 3799 3833 3867 3901 3935 3969 4003 4037 4071 4105 4139 4173 4207 4241 4275 4309 4343 4377 4411 4445 4479 4513 4547 4581 4615 4649 4683 4717 4751 4785 4819 4853 4887 4921 4955 4989 5023 5057 5091 5125 5159 5193 5227 5261 5295 5329 5363 5397 5431 5465 5499 5533 5567 5601 5635 5669 5703 5737 5771 5805 5839 5873 5907 5941 5975 6009 6043 6077 6111 6145 6179 6213 6247 6281 6315 6349 6383 6417 6451 6485 6519 6553 6587 6621 6655 6689 6723 6757 6791 6825 6859 6893 6927 6961 6995 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STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 7

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well name and number: Ute Tribal 01-09-E4API number: 4301352658Well Location: QQ NWSE Section 1 Township 5S Range 4W County DuchesneWell operator: Petroglyph Operating Company, Inc.Address: P.O. Box 607city Roosevelt state UT zip 84066Phone: (435) 722-2531Drilling contractor: ProPetro ServicesAddress: 1422 East 1500 Southcity Vernal state UT zip 84078Phone: (435) 789-1735

Water encountered (attach additional pages as needed):

DEPTH		VOLUME (FLOW RATE OR HEAD)	QUALITY (FRESH OR SALTY)
FROM	TO		
0	513	0	No Water Encountered

Formation tops: 1 _____ 2 _____ 3 _____
(Top to Bottom) 4 _____ 5 _____ 6 _____
 7 _____ 8 _____ 9 _____
 10 _____ 11 _____ 12 _____

If an analysis has been made of the water encountered, please attach a copy of the report to this form.

I hereby certify that this report is true and complete to the best of my knowledge.

NAME (PLEASE PRINT) Rodrigo JuradoTITLE Regulatory Compliance SpecialistSIGNATURE DATE 4/18/2014